
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0709128

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Comments:

Completed by:

Anne Wilhoit	Anne Wilhoit / Document Control	9/27/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0709128

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 Bay Shore OU1South Perimeter Air
DATE RECEIVED:	09/07/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	09/20/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	XXAMSX	Modified TO-15	6.0 "Hg
01AA	XXAMSX Lab Duplicate	Modified TO-15	6.0 "Hg
02A	DWAMS1	Modified TO-15	6.0 "Hg
03A	UWAMS5	Modified TO-15	0.5 "Hg
04A	TRIP BLANK	Modified TO-15	4.6 psi
05A	Lab Blank	Modified TO-15	NA
06A	CCV	Modified TO-15	NA
07A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 09/20/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0709128

Three 6 Liter Summa Canister (100% Certified) and one 6 Liter Summa Canister samples were received on September 07, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The trip blank sample TRIP BLANK has reportable levels of target compounds present.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
XXAMSX	0709128-01A	9/ 5/2007	9/ 7/2007	NA	9	9/14/2007	NA	Good
XXAMSX Lab Duplicate	0709128-01AA	9/ 5/2007	9/ 7/2007	NA	9	9/14/2007	NA	Good
DWAMS1	0709128-02A	9/ 5/2007	9/ 7/2007	NA	9	9/14/2007	NA	Good
UWAMS5	0709128-03A	9/ 5/2007	9/ 7/2007	NA	9	9/14/2007	NA	Good
TRIP BLANK	0709128-04A	NA	9/ 7/2007	NA	NA	9/14/2007	NA	Good
Lab Blank	0709128-05A	NA	NA	NA	NA	9/14/2007	NA	Good
CCV	0709128-06A	NA	NA	NA	NA	9/14/2007	NA	Good
LCS	0709128-07A	NA	NA	NA	NA	9/14/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: XXAMSX

Lab ID#: 0709128-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.84	0.92	3.2	3.5
Acetone	3.4	5.1	8.0	12
Carbon Disulfide	0.84	1.9	2.6	6.0
Tetrahydrofuran	0.84	0.90	2.5	2.6
Ethanol	3.4	3.8	6.3	7.1

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XXAMSX

Lab ID#: 0709128-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091406**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 9/14/07 11:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	0.92	3.2	3.5
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XXAMSX

Lab ID#: 0709128-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091406**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 9/14/07 11:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	5.1	8.0	12
Carbon Disulfide	0.84	1.9	2.6	6.0
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	0.90	2.5	2.6
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	3.8	6.3	7.1
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091406.d
Lab Smp Id: 0709128-01A
Inj Date : 14-SEP-2007 11:53
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #11308
Misc Info : 6.0"Hg-5psi GEI
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	363382	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	280322			46.97- 106.97	77.14
8.059	8.059 (1.000)	49	818952			198.32- 258.32	225.37
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.939 (1.000)	114	1385373	25.0000		80.00- 120.00	100.00
9.911	9.939 (1.000)	88	235208			0.00- 47.50	16.98
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1074399	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	642119			0.00- 30.00	59.77
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	536290	25.0252	25.025	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	259105			0.00- 30.00	48.31
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1198038	24.1441	24.144	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	121299			0.00- 30.00	10.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	770877			0.00- 30.00	64.34
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	507453	23.6045	23.604	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	856467			135.18- 195.18	168.78
16.575	16.575 (1.105)	176	516449			66.98- 126.98	101.77
26 Ethanol					CAS #: 64-17-5		
4.160	4.105 (0.516)	45	27138	2.24807	3.777	80.00- 120.00	100.00
4.133	4.133 (0.513)	43	9255			0.00- 30.00	34.10
4.160	4.105 (0.516)	46	9119			0.00- 30.00	33.60
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.592)	58	45368	3.01639	5.068	80.00- 120.00	100.00
4.769	4.741 (0.592)	43	134304			0.00- 30.00	296.03
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	76644	1.14748	1.928	80.00- 120.00	100.00
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	22018	0.53597	0.9004	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	6163			0.00- 54.36	27.99
8.059	8.059 (1.000)	72	6232			0.00- 30.00	28.30
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	31282	0.55002	0.9240	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	17321			27.46- 87.46	55.37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091406.d
Lab Smp Id: 0709128-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 6.0"Hg-5psi GEI

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	363382	-19.67
92 1,4-Difluorobenze	1787738	1072643	2502833	1385373	-22.51
125 Chlorobenzene-d5	1404975	842985	1966965	1074399	-23.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709128-01A
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 6.0"Hg-5psi GEI

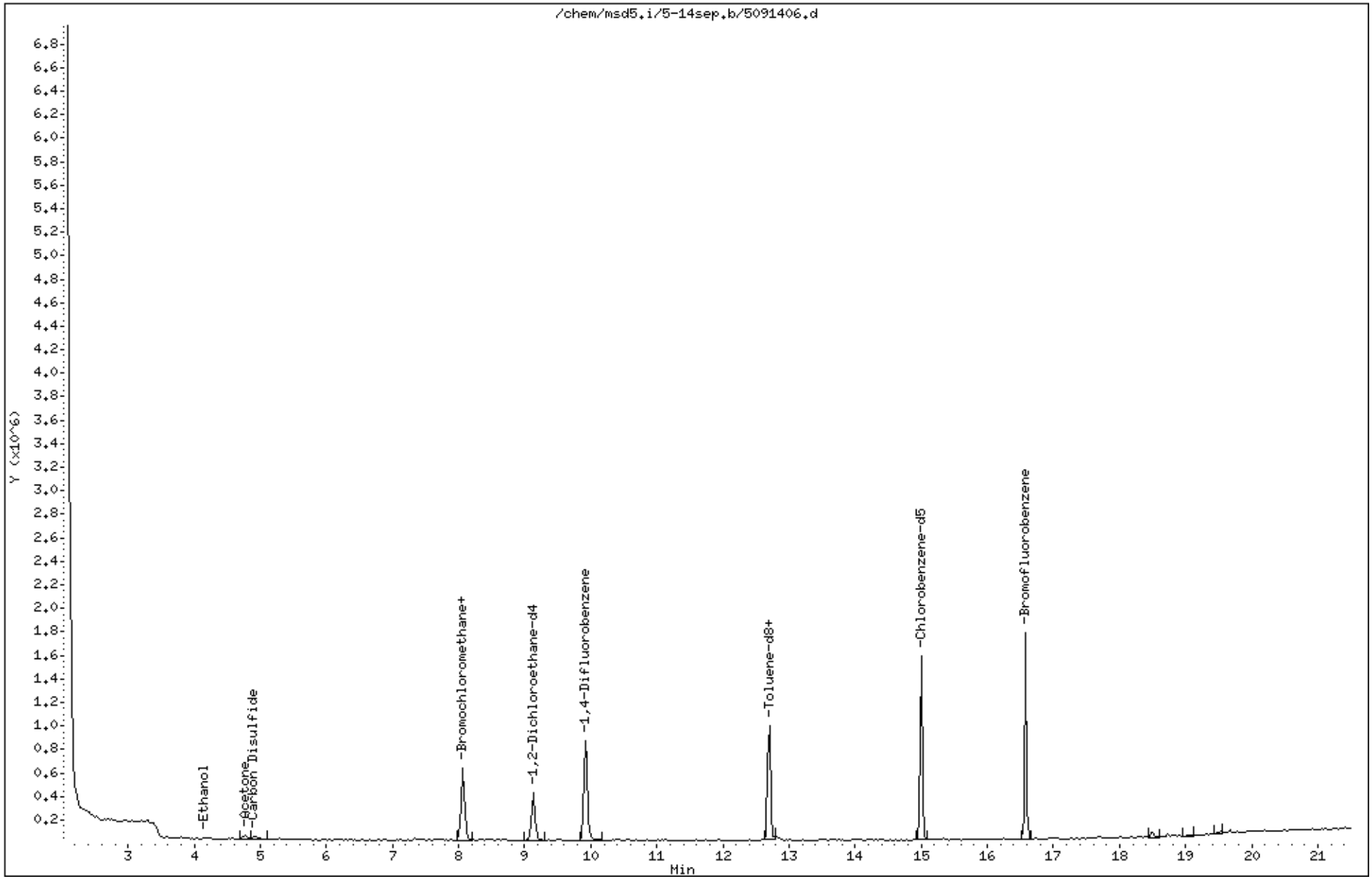
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.025	100.10	70-130
$ 107 Toluene-d8	25.000	24.144	96.58	70-130
$ 138 Bromofluorobenzene	25.000	23.604	94.42	70-130

0013

Data File: /chem/msd5.i/5-14sep.b/5091406.d
Date : 14-SEP-2007 11:53
Client ID:
Sample Info: 200mL #11308

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-14sep.b/5091406.d

Date : 14-SEP-2007 11:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

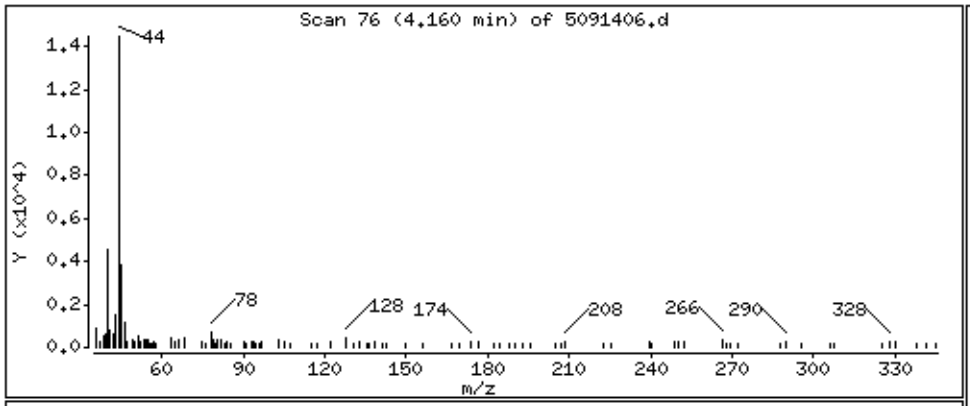
Operator: ct

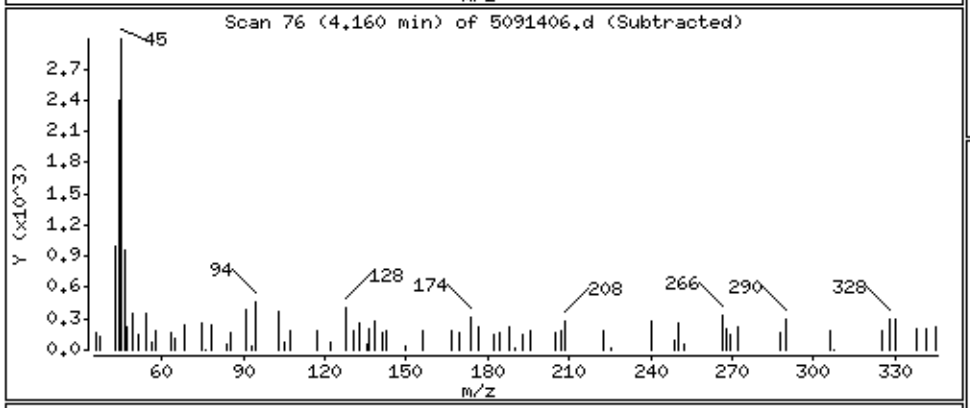
Column phase: RTx-624

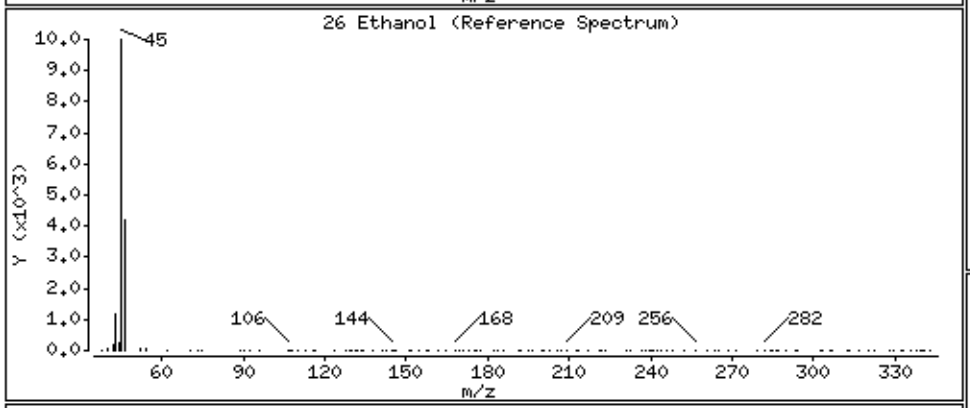
Column diameter: 0.53

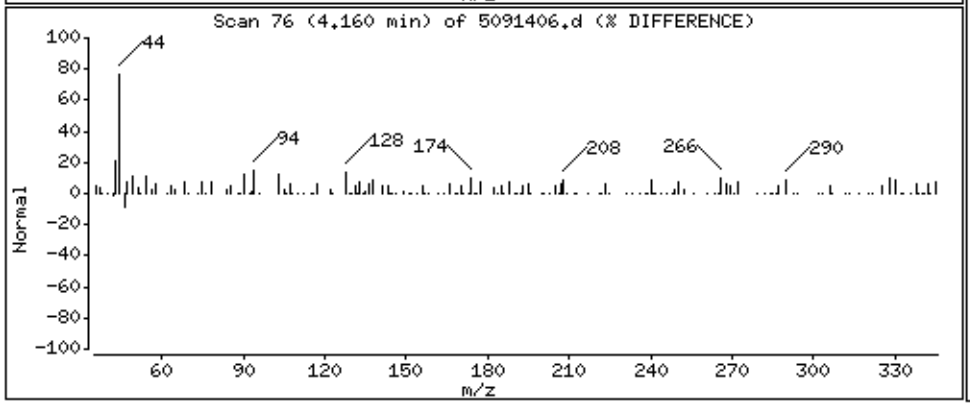
26 Ethanol

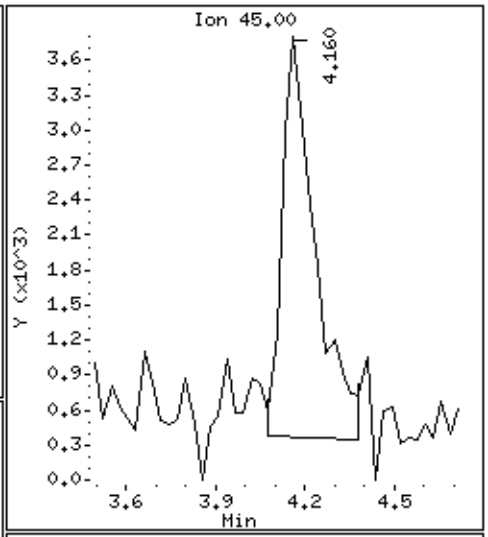
Concentration: 3.777 PPBV

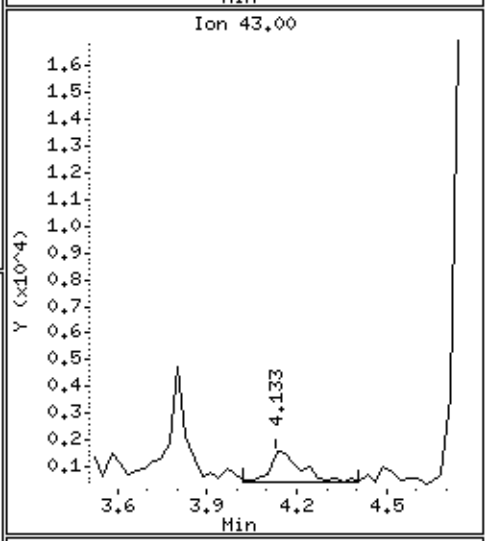


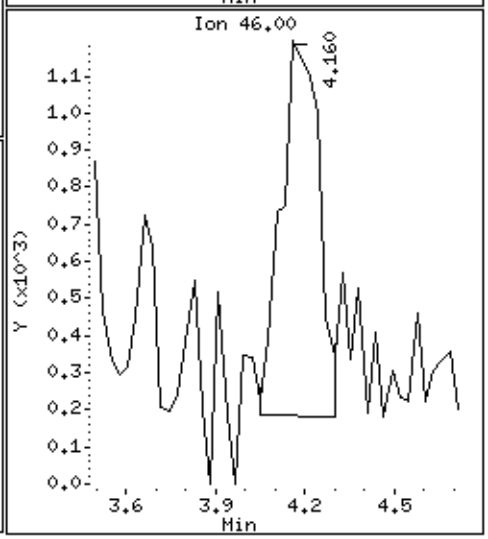












Data File: /chem/msd5.i/5-14sep.b/5091406.d

Date : 14-SEP-2007 11:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

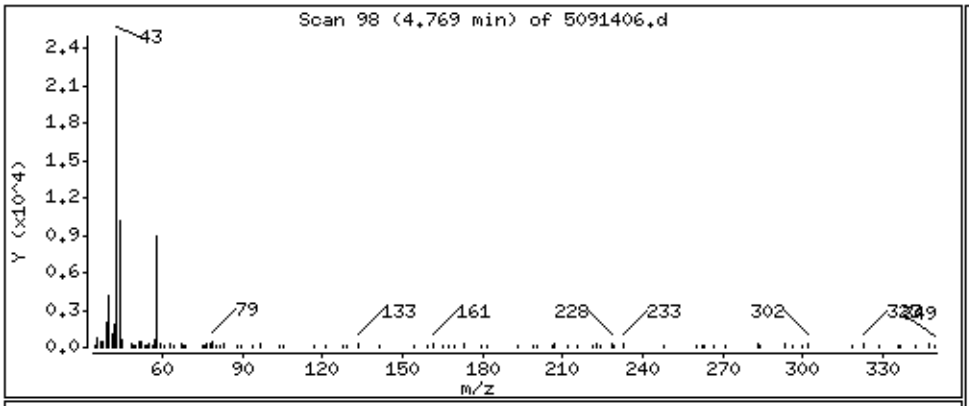
Operator: ct

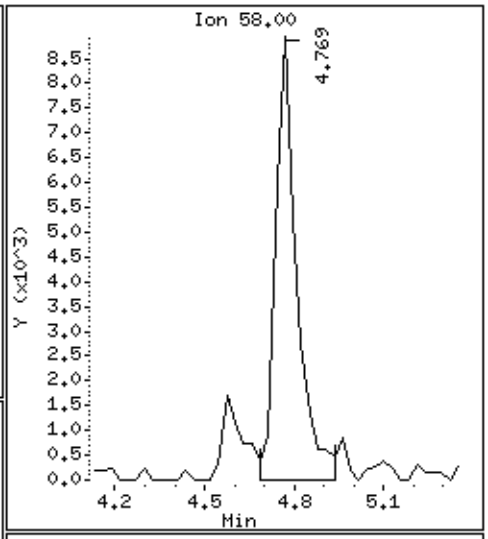
Column phase: RTx-624

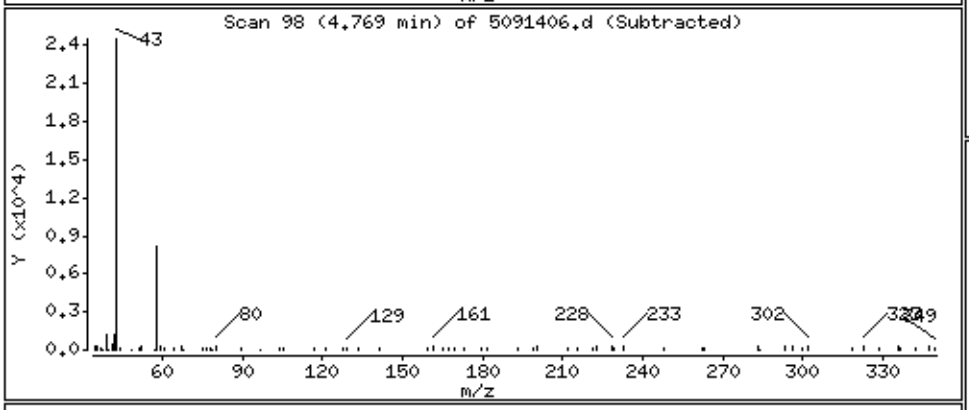
Column diameter: 0.53

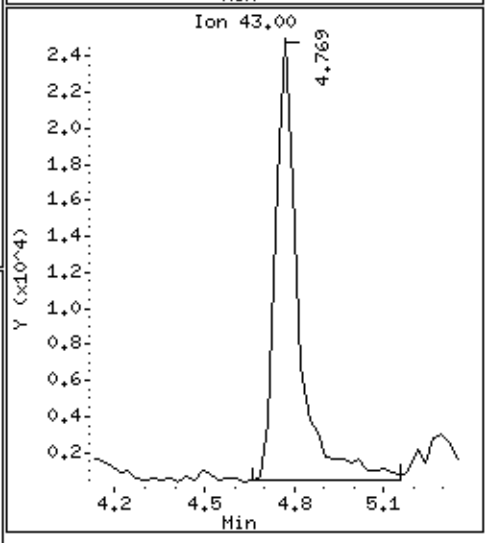
32 Acetone

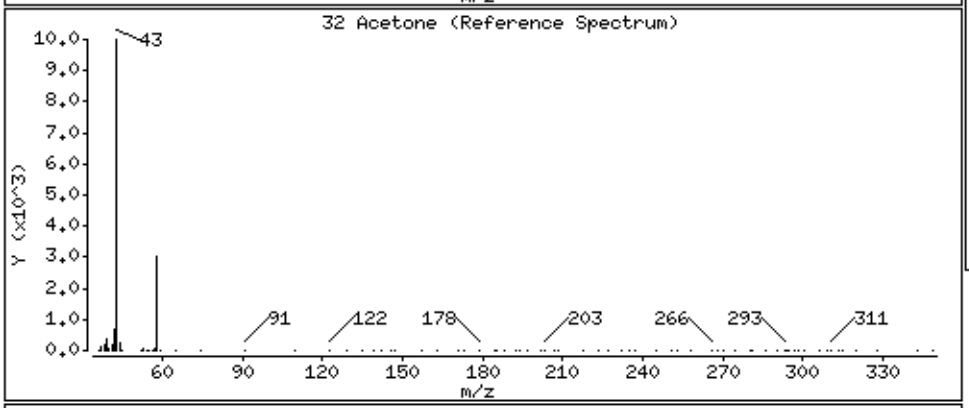
Concentration: 5.068 PPBV

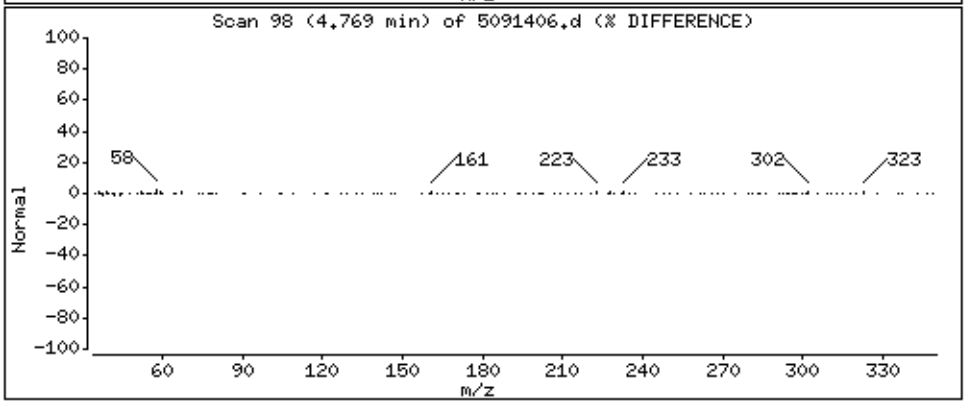












Data File: /chem/msd5.i/5-14sep.b/5091406.d

Date : 14-SEP-2007 11:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

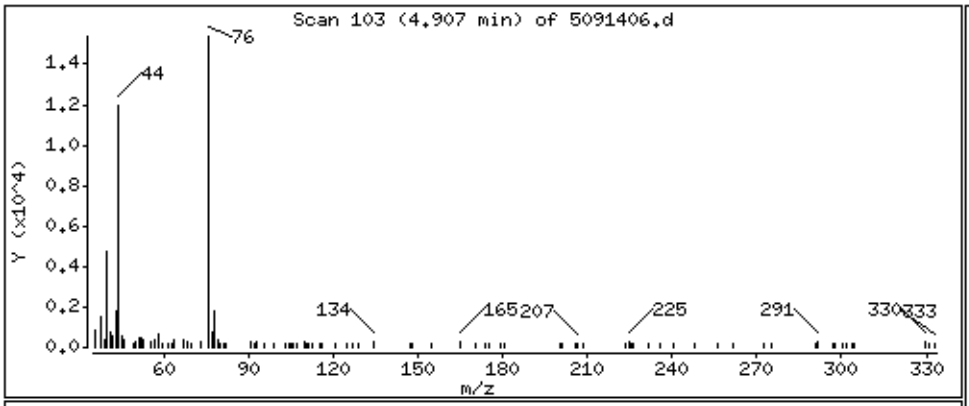
Operator: ct

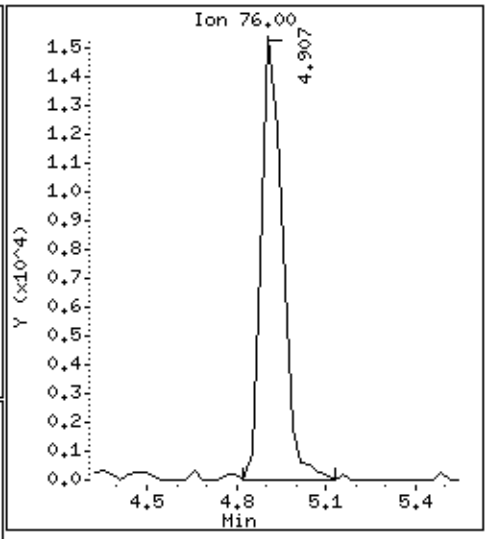
Column phase: RTx-624

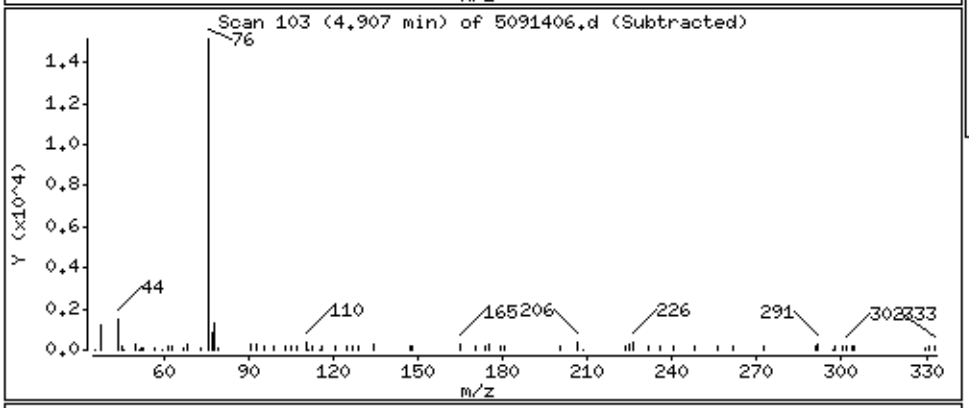
Column diameter: 0.53

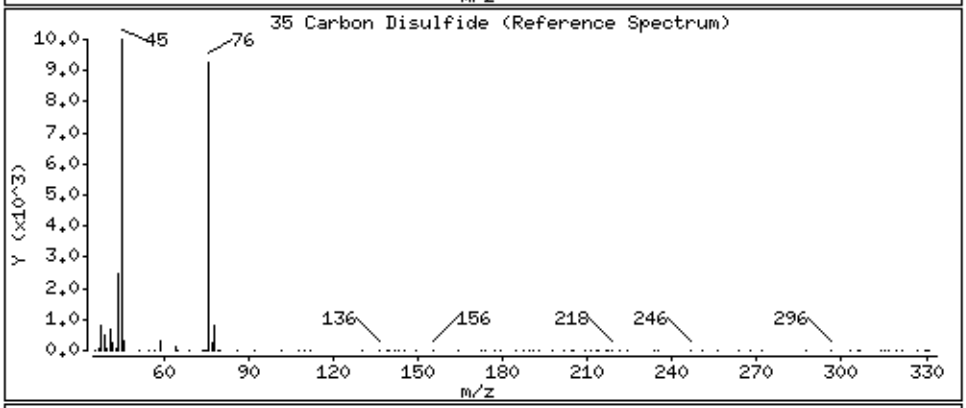
35 Carbon Disulfide

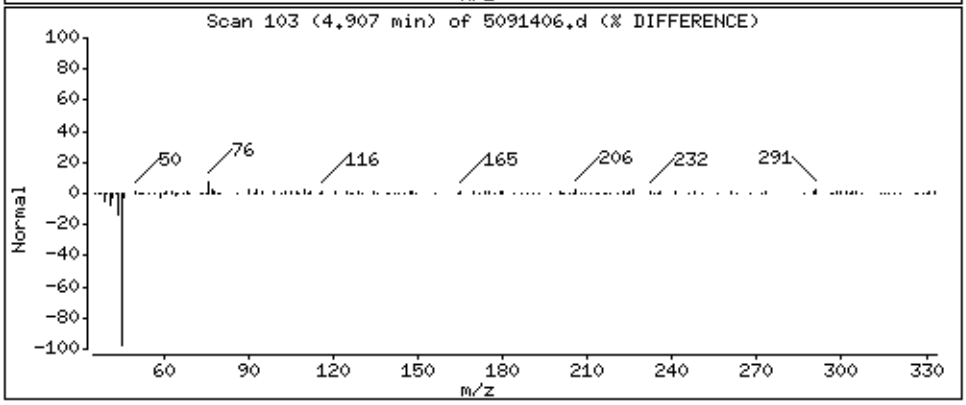
Concentration: 1.928 PPBV











Data File: /chem/msd5.i/5-14sep.b/5091406.d

Date : 14-SEP-2007 11:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

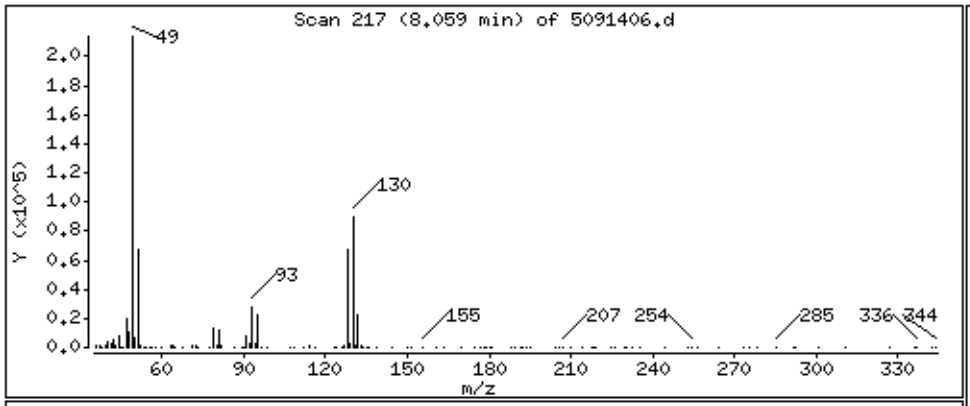
Operator: ct

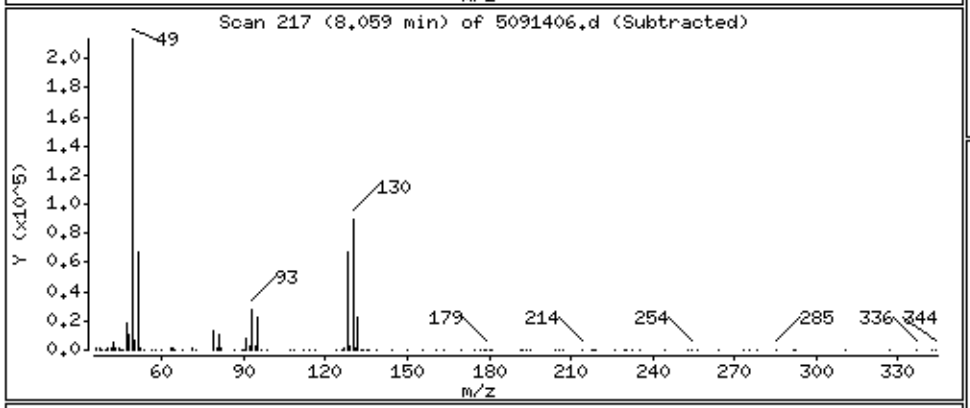
Column phase: RTx-624

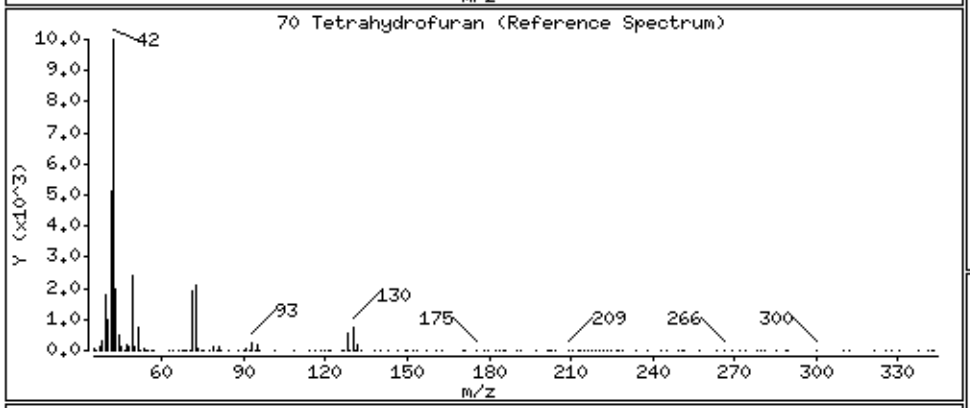
Column diameter: 0.53

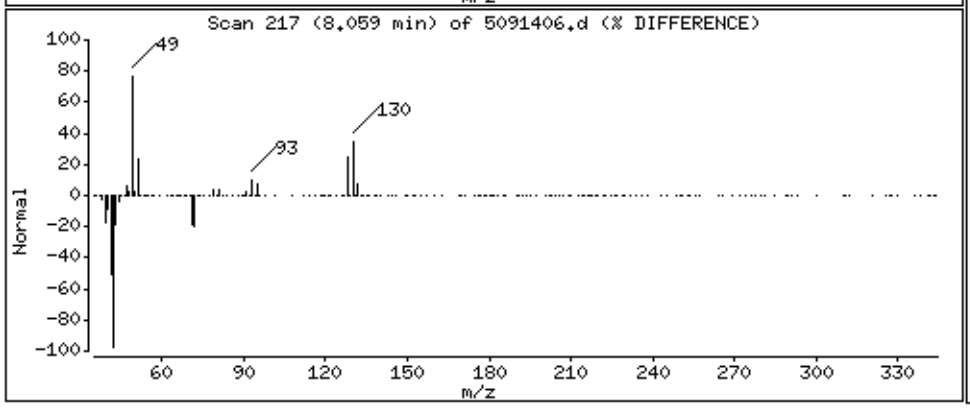
70 Tetrahydrofuran

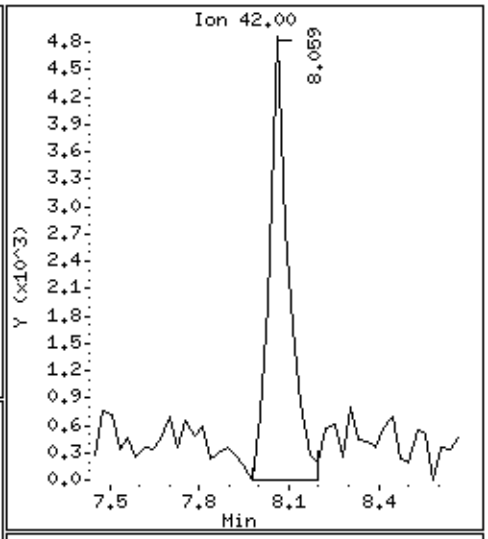
Concentration: 0.9004 PPBV

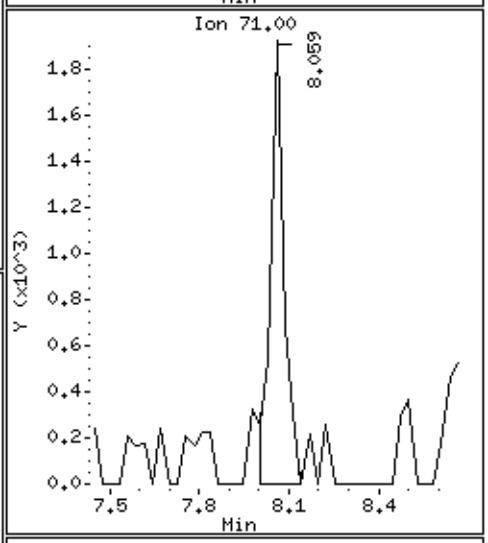


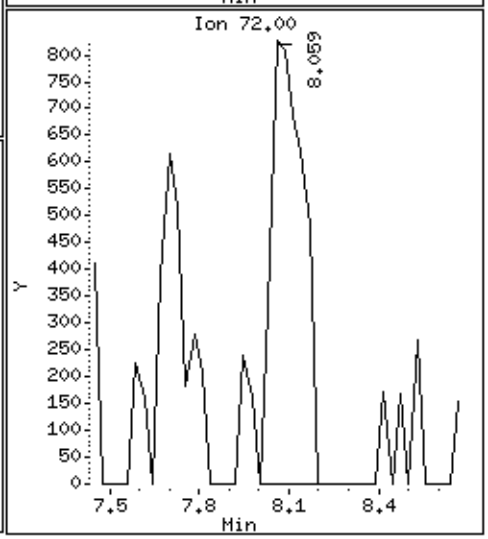












Data File: /chem/msd5.i/5-14sep.b/5091406.d

Date : 14-SEP-2007 11:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

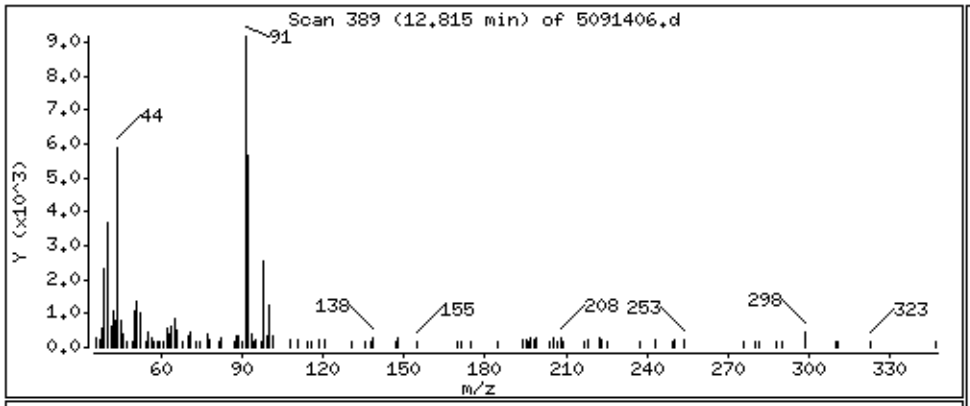
Operator: ct

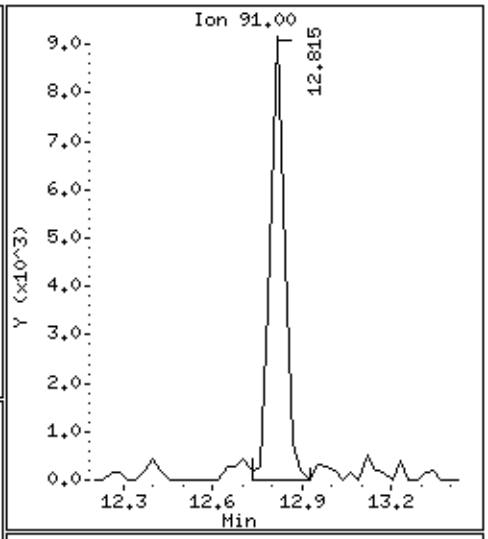
Column phase: RTx-624

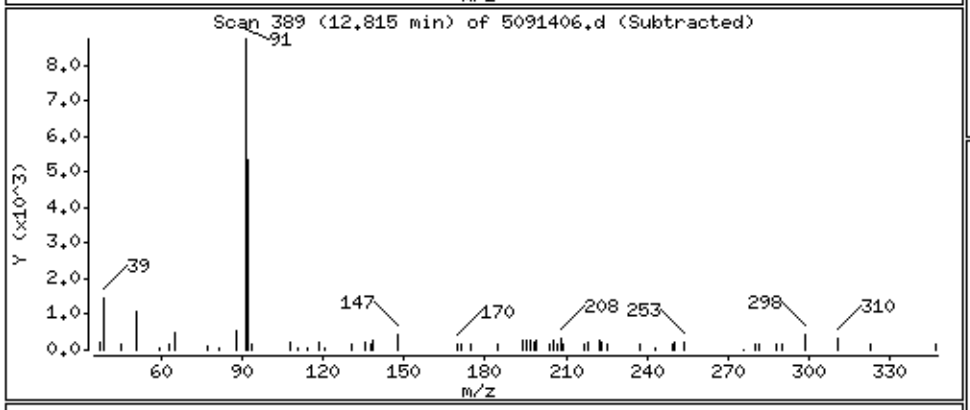
Column diameter: 0.53

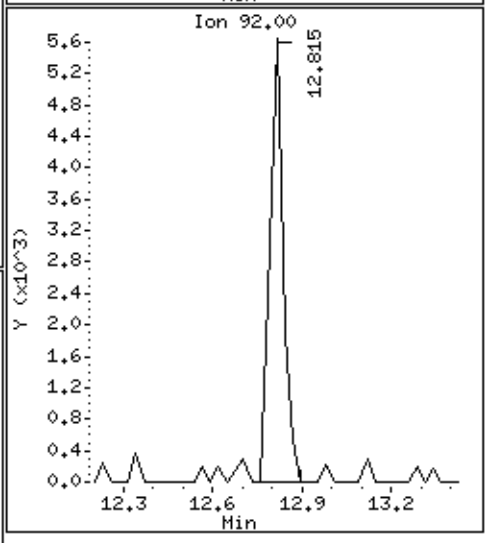
108 Toluene

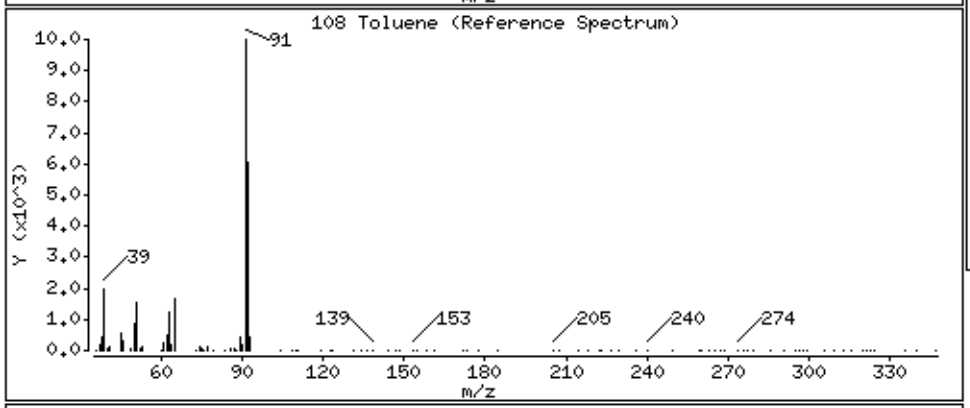
Concentration: 0.9240 PPBV

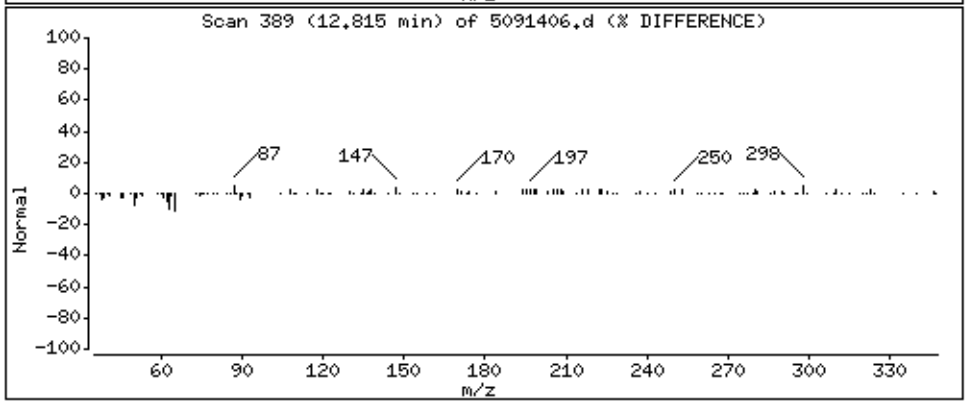












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: XXAMSX Lab Duplicate

Lab ID#: 0709128-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.84	0.87	3.2	3.3
Acetone	3.4	4.6	8.0	11
Carbon Disulfide	0.84	1.9	2.6	5.8
Ethanol	3.4	3.8	6.3	7.2

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XXAMSX Lab Duplicate

Lab ID#: 0709128-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091407**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 9/14/07 12:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	0.87	3.2	3.3
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

0020

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XXAMSX Lab Duplicate

Lab ID#: 0709128-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091407**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 9/14/07 12:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	4.6	8.0	11
Carbon Disulfide	0.84	1.9	2.6	5.8
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	3.8	6.3	7.2
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091407.d
Lab Smp Id: 0709128-01AA
Inj Date : 14-SEP-2007 12:25
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #11308
Misc Info : 6.0"Hg-5psi GEI
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	345971	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	273134			46.97- 106.97	78.95
8.059	8.059 (1.000)	49	777088			198.32- 258.32	224.61
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1311981	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	220459			0.00- 47.50	16.80
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1037860	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	610717			0.00- 30.00	58.84
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	505832	24.7918	24.792	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	233185			0.00- 30.00	46.10
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1124544	23.9307	23.931	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	123991			0.00- 30.00	11.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	721364			0.00- 30.00	64.15
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	517539	24.9212	24.921	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	819849			135.18- 195.18	158.41
16.575	16.575 (1.105)	176	489867			66.98- 126.98	94.65
26 Ethanol					CAS #: 64-17-5		
4.188	4.105 (0.520)	45	26145	2.27480	3.822	80.00- 120.00	100.00
4.161	4.133 (0.516)	43	8392			0.00- 30.00	32.10
4.188	4.105 (0.520)	46	9297			0.00- 30.00	35.56
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.592)	58	39448	2.75478	4.628	80.00- 120.00	100.00
4.769	4.741 (0.592)	43	128015			0.00- 30.00	324.52
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	70872	1.11446	1.872	80.00- 120.00	100.00
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	27874	0.51752	0.8694	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	15997			27.46- 87.46	57.39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091407.d
Lab Smp Id: 0709128-01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 6.0"Hg-5psi GEI

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	345971	-23.52
92 1,4-Difluorobenze	1787738	1072643	2502833	1311981	-26.61
125 Chlorobenzene-d5	1404975	842985	1966965	1037860	-26.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709128-01AA
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 6.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.792	99.17	70-130
$ 107 Toluene-d8	25.000	23.931	95.72	70-130
$ 138 Bromofluorobenzene	25.000	24.921	99.68	70-130

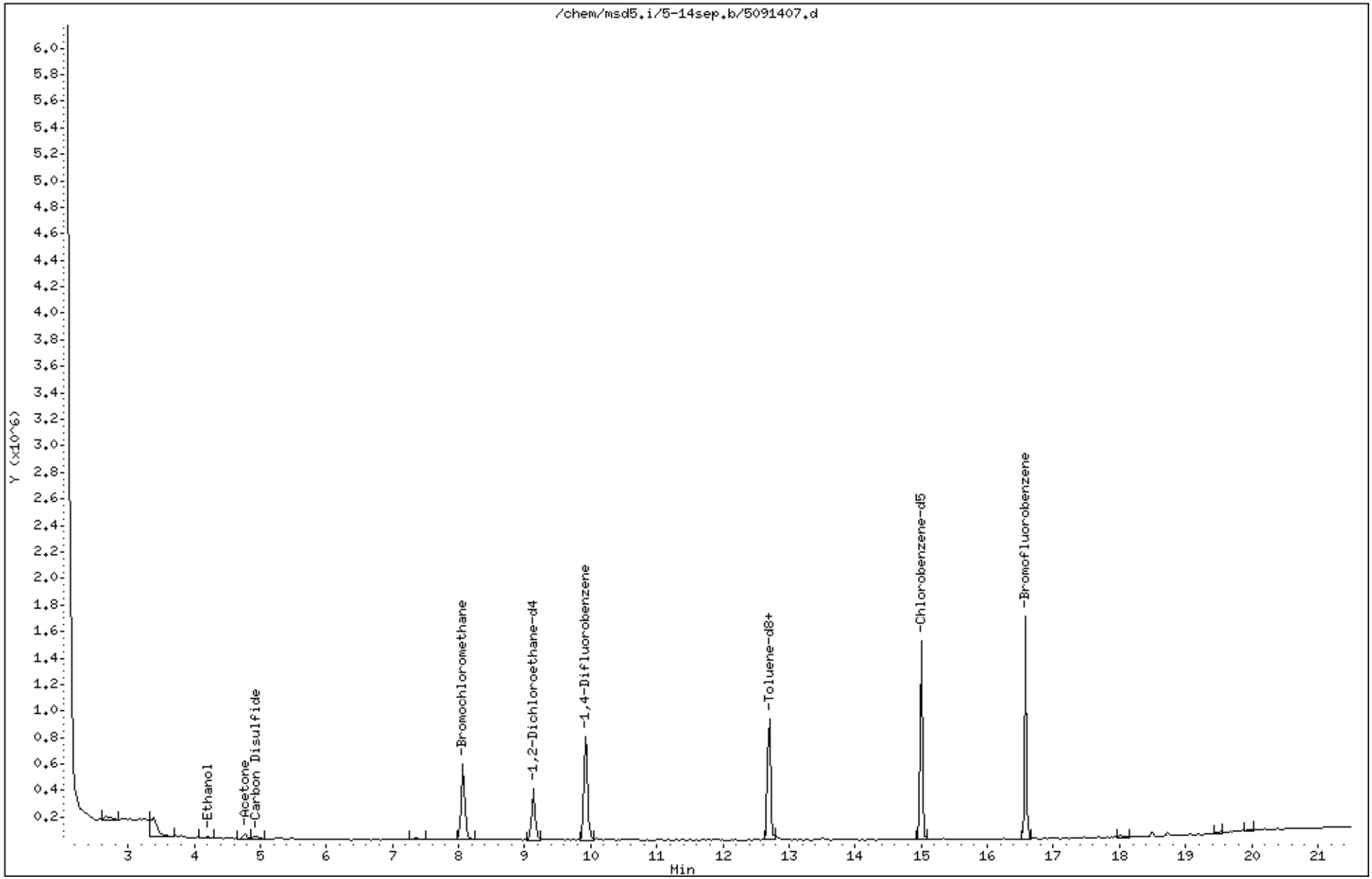
0026

Data File: /chem/msd5.i/5-14sep.b/5091407.d
Date : 14-SEP-2007 12:25
Client ID:
Sample Info: 200mL #11308

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-14sep.b/5091407.d

Date : 14-SEP-2007 12:25

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

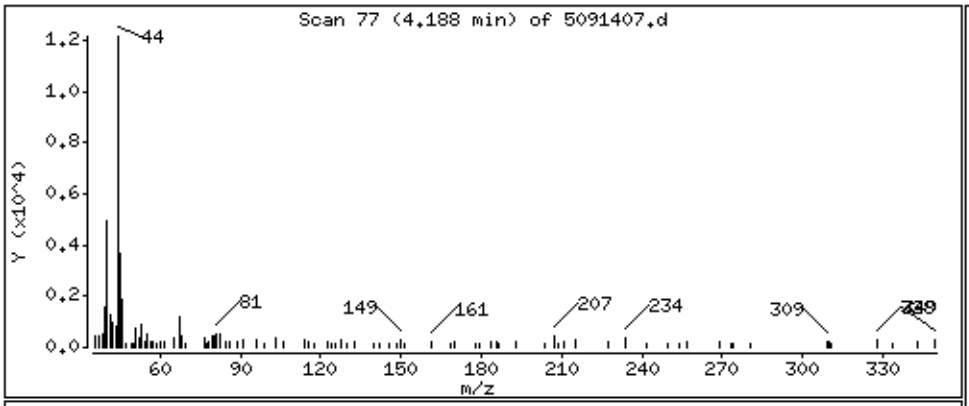
Operator: ct

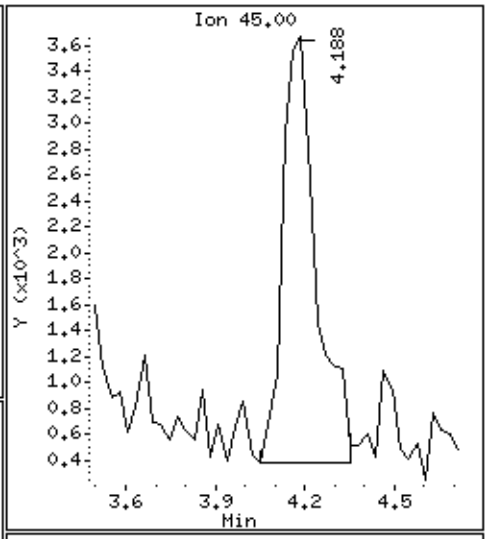
Column phase: RTx-624

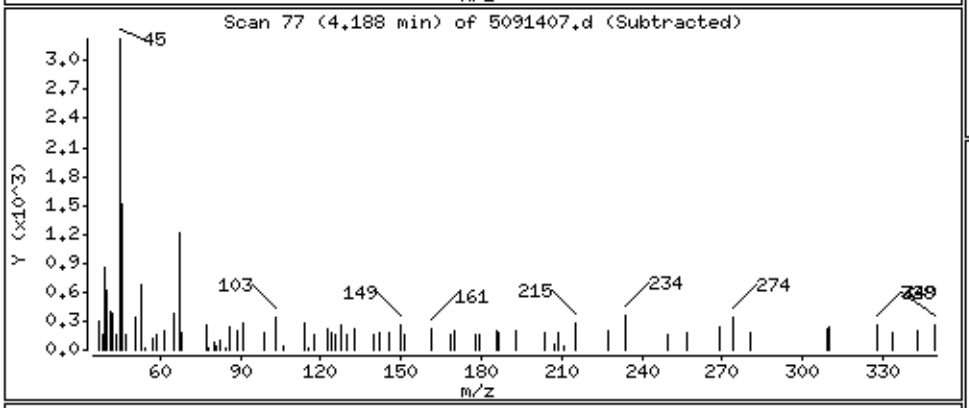
Column diameter: 0.53

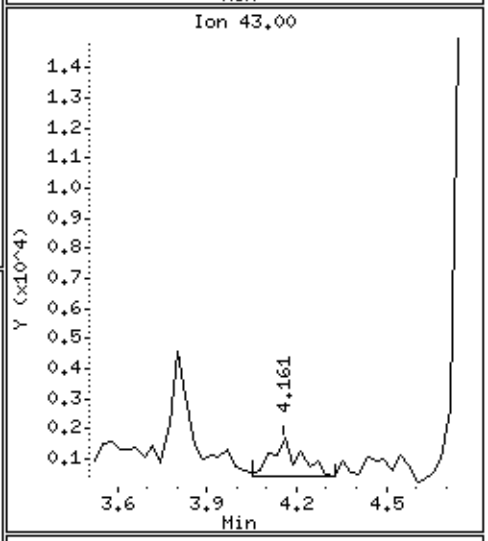
26 Ethanol

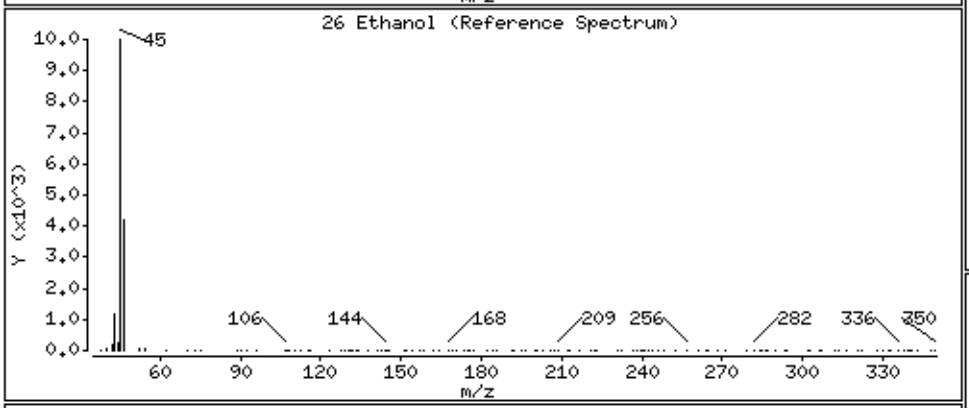
Concentration: 3.822 PPBV

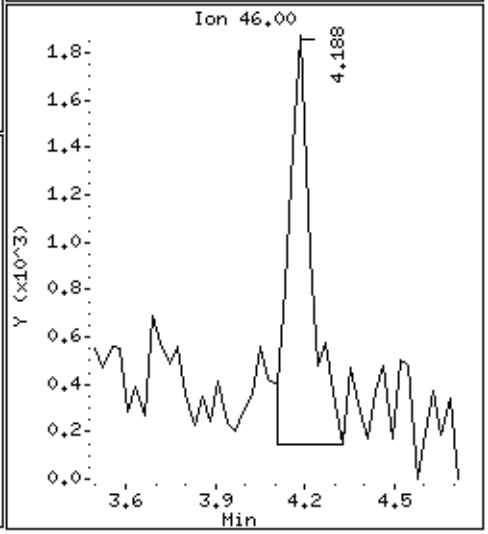


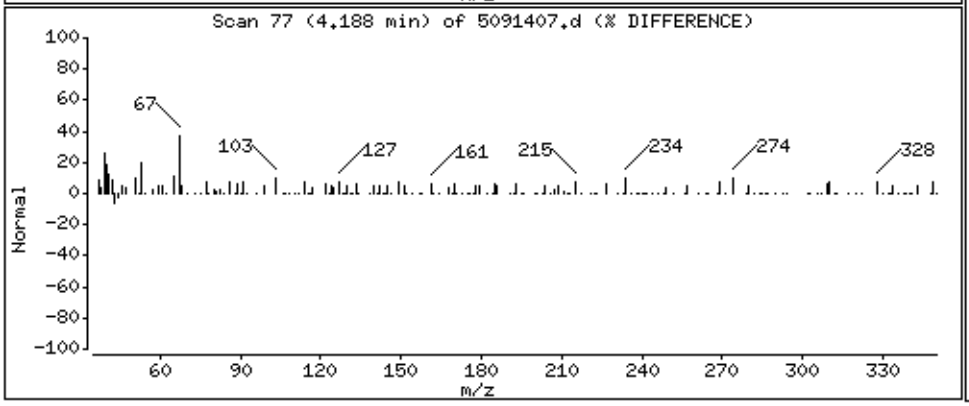












Data File: /chem/msd5.i/5-14sep.b/5091407.d

Date : 14-SEP-2007 12:25

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

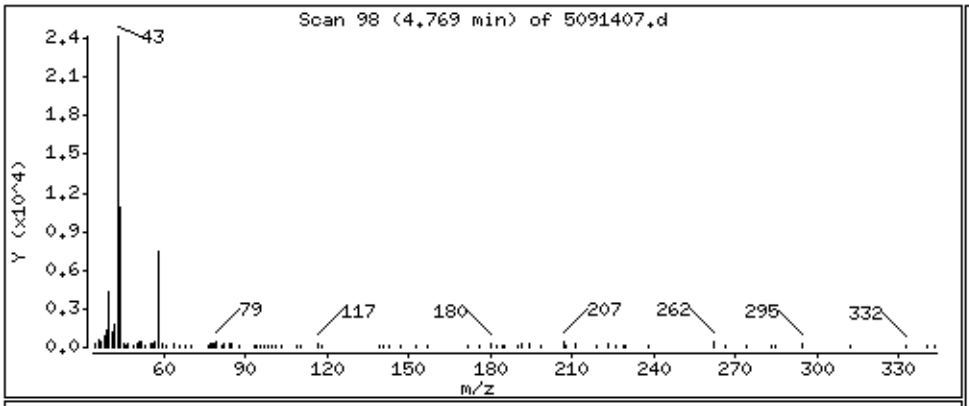
Operator: ct

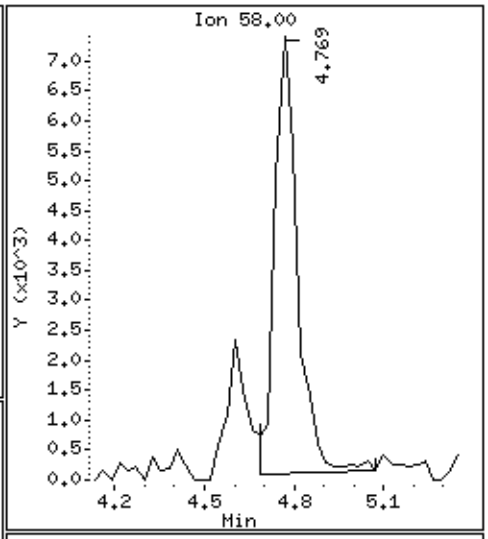
Column phase: RTx-624

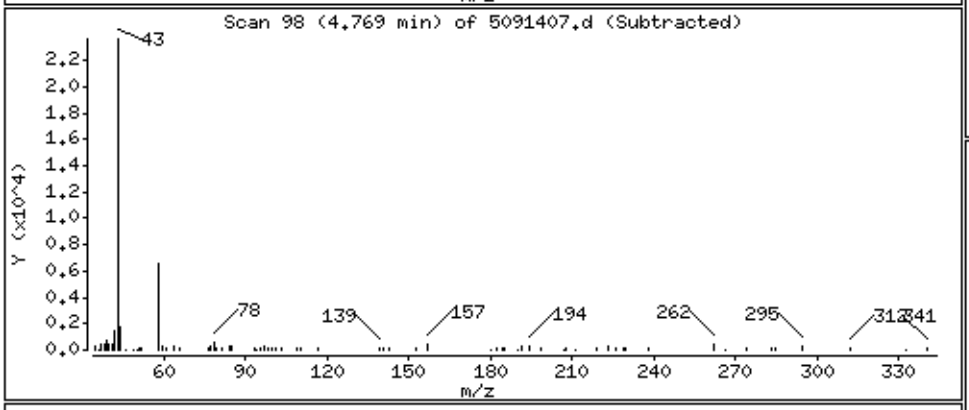
Column diameter: 0.53

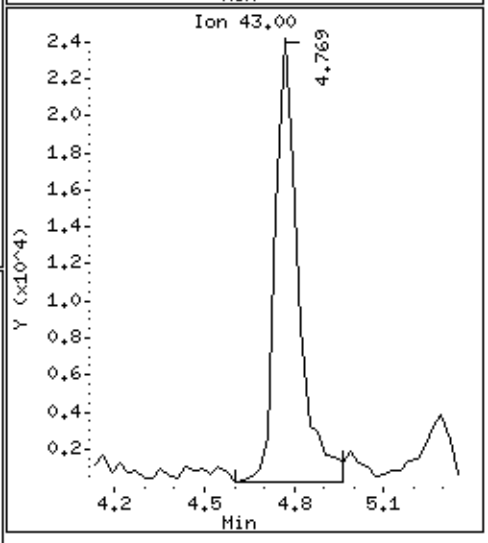
32 Acetone

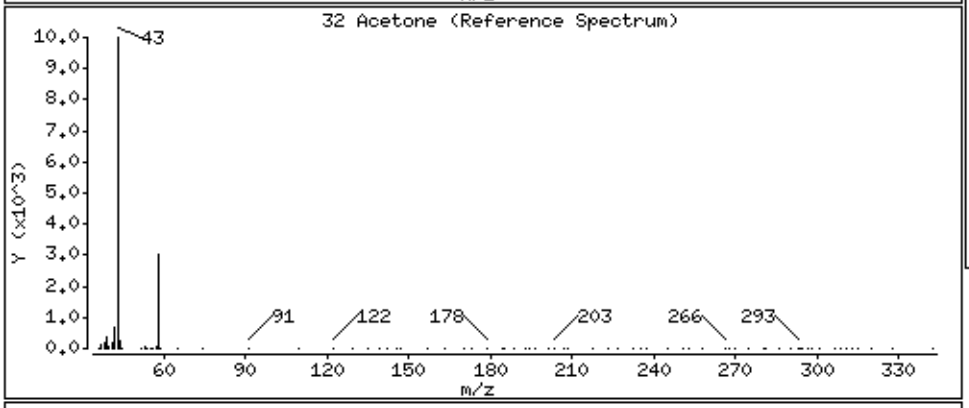
Concentration: 4.628 PPBV

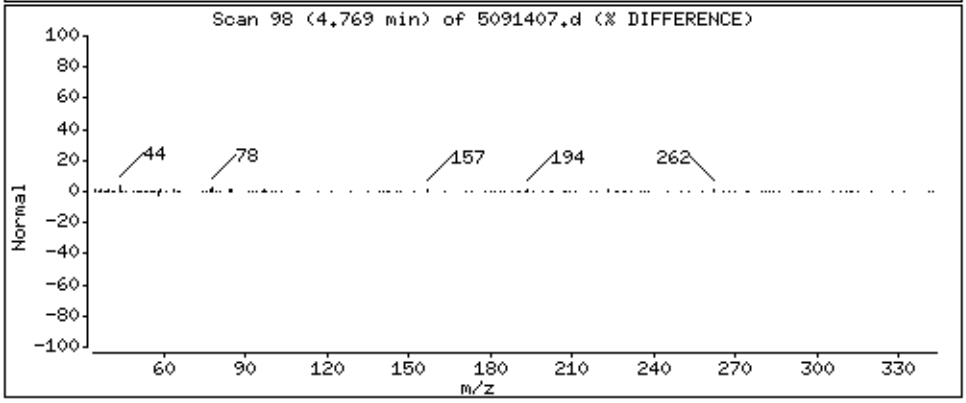












Data File: /chem/msd5.i/5-14sep.b/5091407.d

Date : 14-SEP-2007 12:25

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

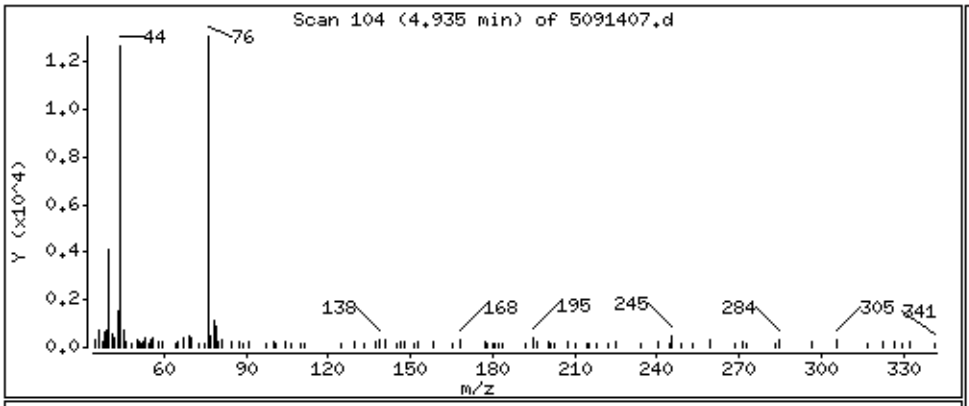
Operator: ct

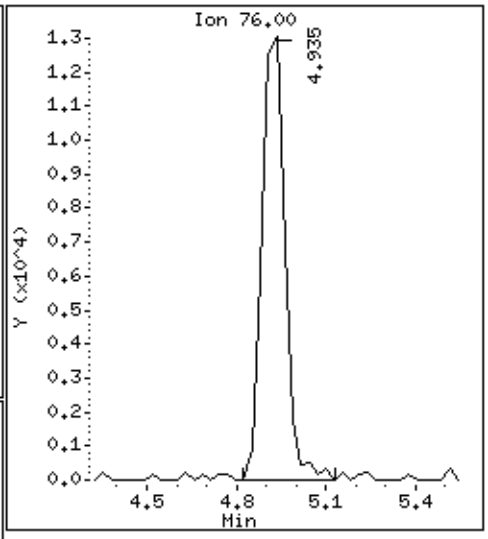
Column phase: RTx-624

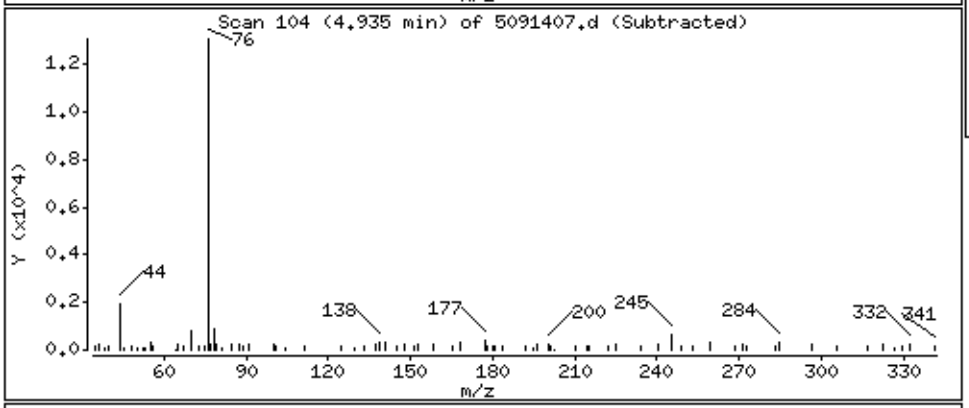
Column diameter: 0.53

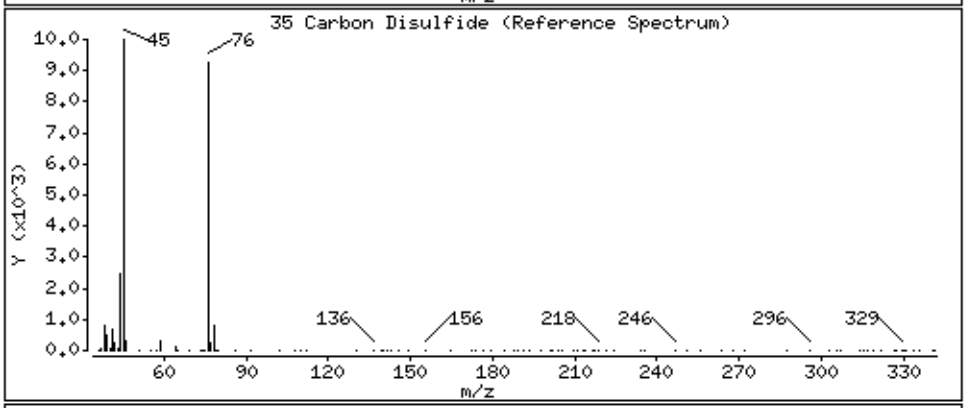
35 Carbon Disulfide

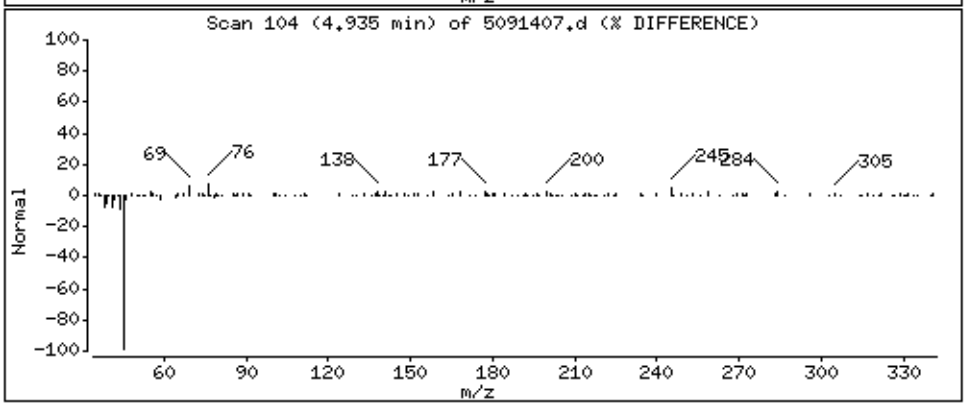
Concentration: 1.872 PPBV











Data File: /chem/msd5.i/5-14sep.b/5091407.d

Date : 14-SEP-2007 12:25

Client ID:

Instrument: msd5.i

Sample Info: 200mL #11308

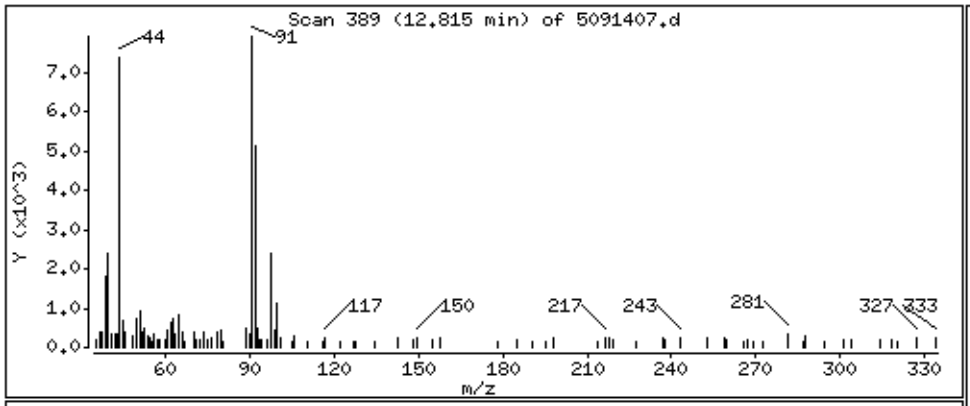
Operator: ct

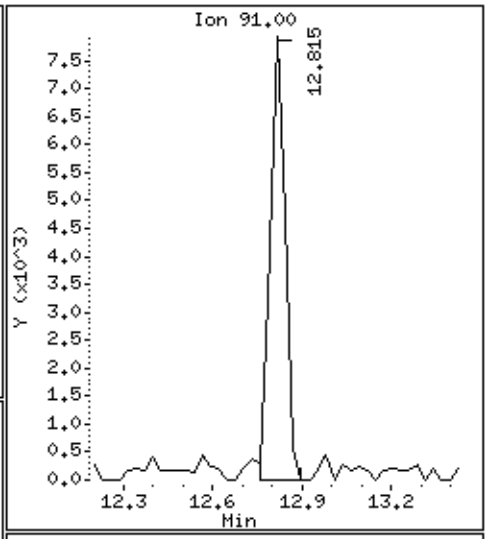
Column phase: RTx-624

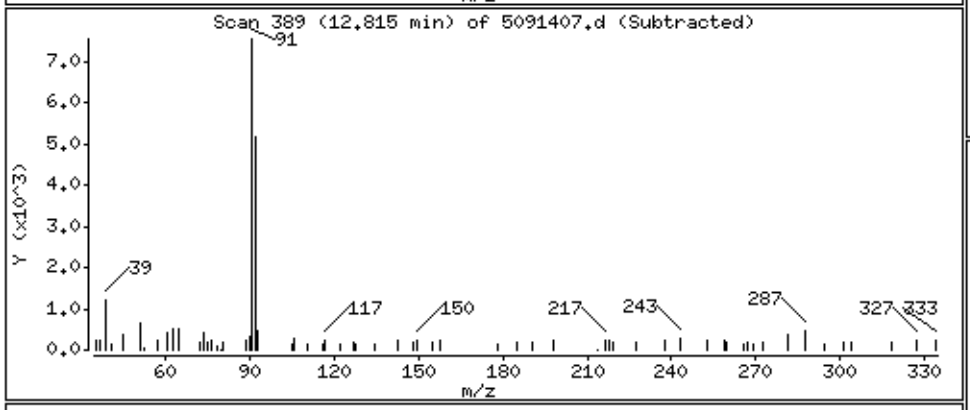
Column diameter: 0.53

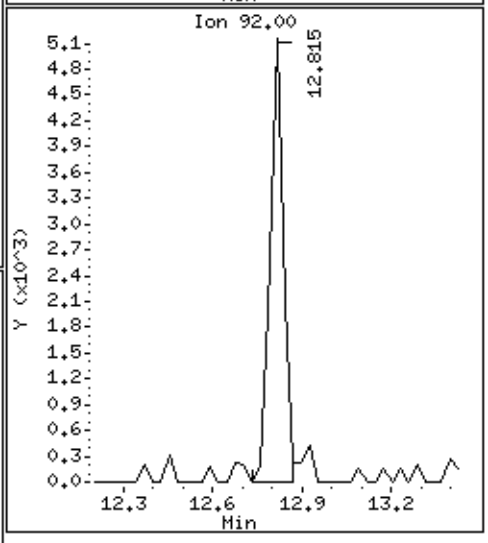
108 Toluene

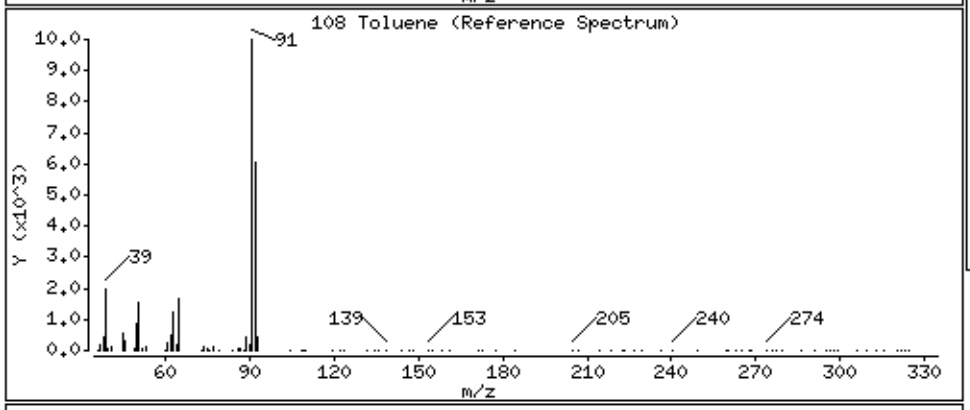
Concentration: 0.8694 PPBV

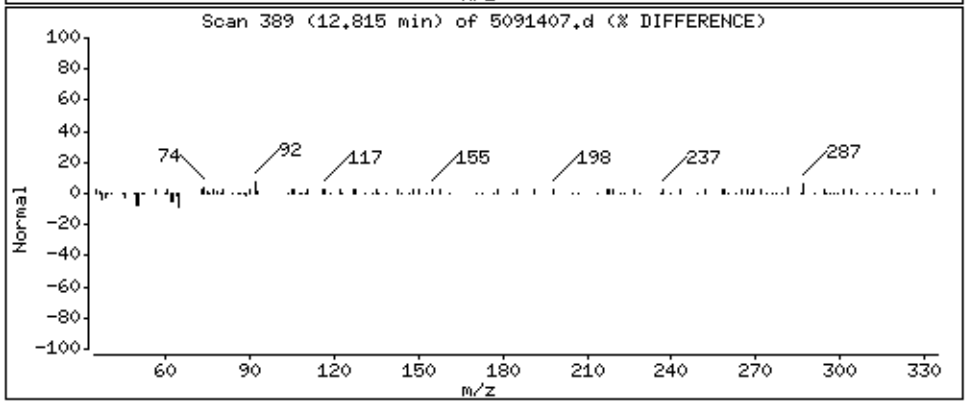












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: DWAMS1

Lab ID#: 0709128-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	0.85	4.2	4.2
Acetone	3.4	3.8	8.0	9.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DWAMS1

Lab ID#: 0709128-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091408**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 9/14/07 12:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	0.85	4.2	4.2
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DWAMS1

Lab ID#: 0709128-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091408**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 9/14/07 12:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	3.8	8.0	9.0
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091408.d
Lab Smp Id: 0709128-02A
Inj Date : 14-SEP-2007 12:57
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #05698
Misc Info : 6.0"Hg-5psi GEI
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	320328	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	262751			46.97- 106.97	82.03
8.059	8.059 (1.000)	49	772343			198.32- 258.32	241.11
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1266899	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	215052			0.00- 47.50	16.97
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1038645	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	599794			0.00- 30.00	57.75
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	503133	26.6335	26.634	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	252227			0.00- 30.00	50.13
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1148273	25.3052	25.305	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	119564			0.00- 30.00	10.41

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	702530			0.00- 30.00	61.18
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	483606	23.2696	23.270	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	796470			135.18- 195.18	164.69
16.575	16.575 (1.105)	176	479061			66.98- 126.98	99.06
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.293)	85	18325	0.50665	0.8512	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	3439			0.00- 30.00	18.77
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.592)	58	30092	2.26964	3.813	80.00- 120.00	100.00
4.796	4.741 (0.595)	43	89166			0.00- 30.00	296.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091408.d
Lab Smp Id: 0709128-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 6.0"Hg-5psi GEI

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	320328	-29.19
92 1,4-Difluorobenze	1787738	1072643	2502833	1266899	-29.13
125 Chlorobenzene-d5	1404975	842985	1966965	1038645	-26.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709128-02A
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 6.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	26.634	106.53	70-130
$ 107 Toluene-d8	25.000	25.305	101.22	70-130
$ 138 Bromofluorobenzene	25.000	23.270	93.08	70-130

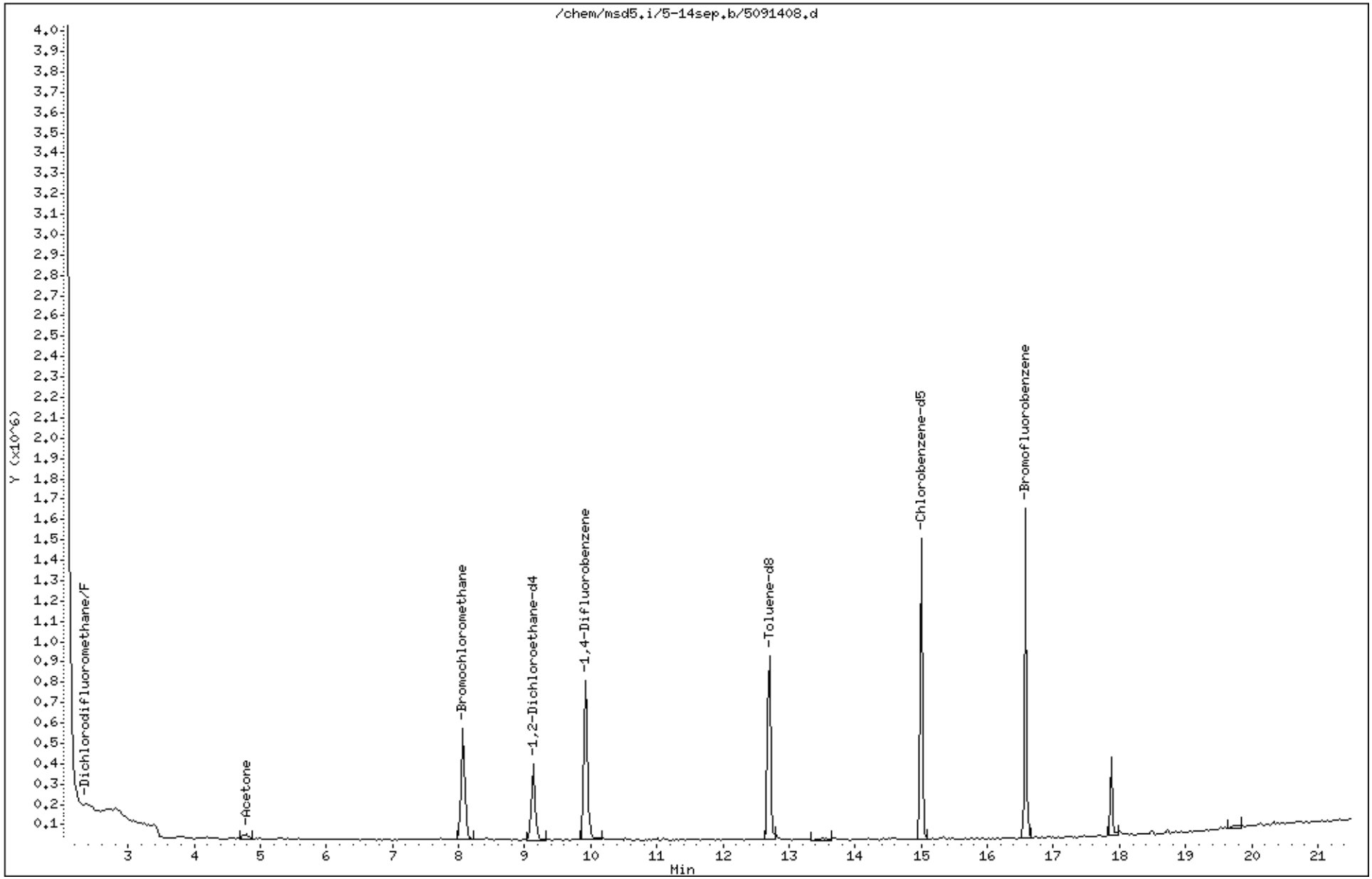
0038

Data File: /chem/msd5.i/5-14sep.b/5091408.d
Date : 14-SEP-2007 12:57
Client ID:
Sample Info: 200mL #05698

Instrument: msd5.i

Operator: ct

Column phase: RTx-624
Column diameter: 0.53



Data File: /chem/msd5.i/5-14sep.b/5091408.d

Date : 14-SEP-2007 12:57

Client ID:

Instrument: msd5.i

Sample Info: 200mL #05698

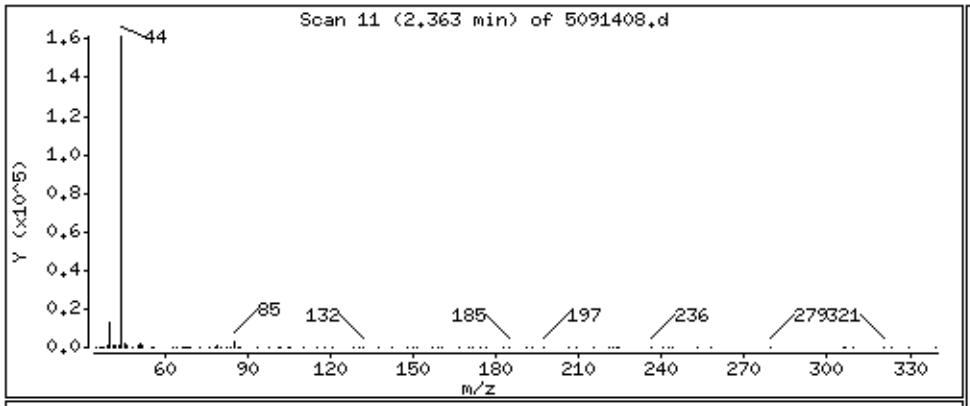
Operator: ct

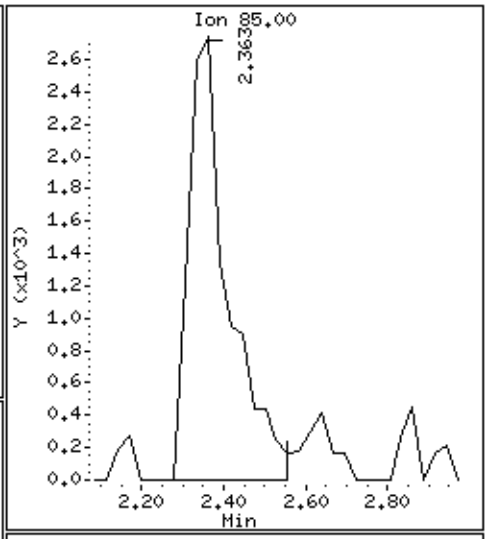
Column phase: RTx-624

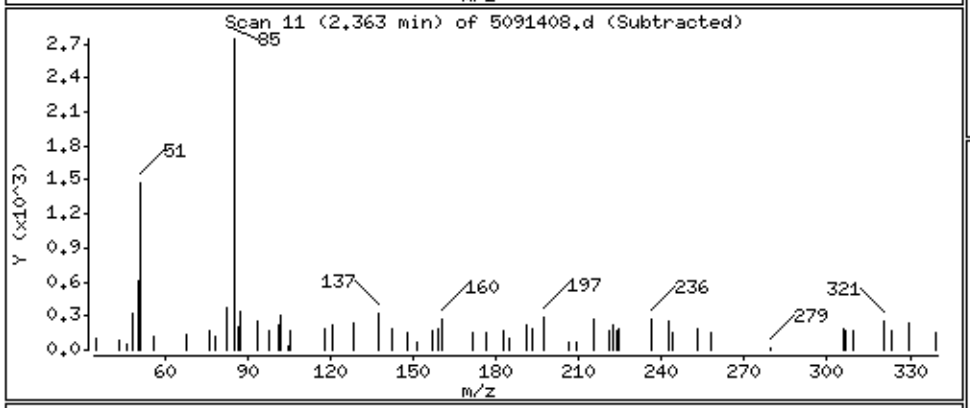
Column diameter: 0.53

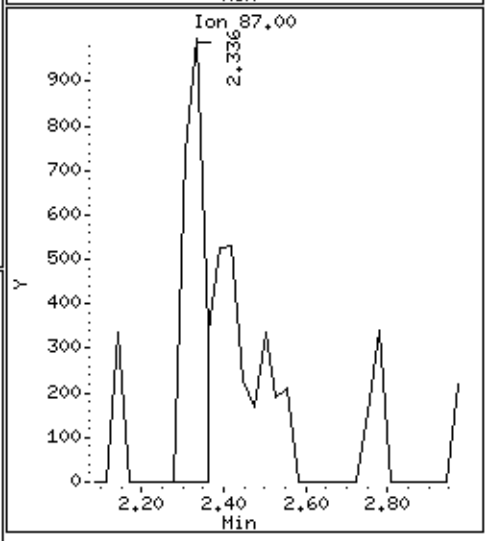
8 Dichlorodifluoromethane/Fr12

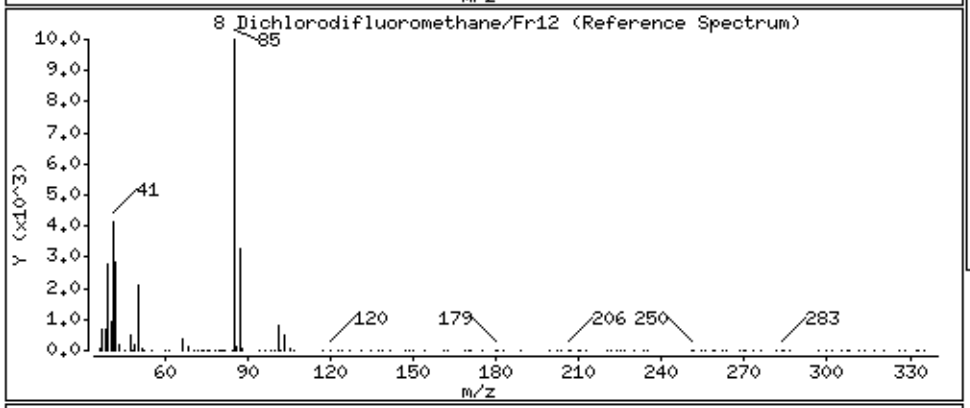
Concentration: 0.8512 PPBV

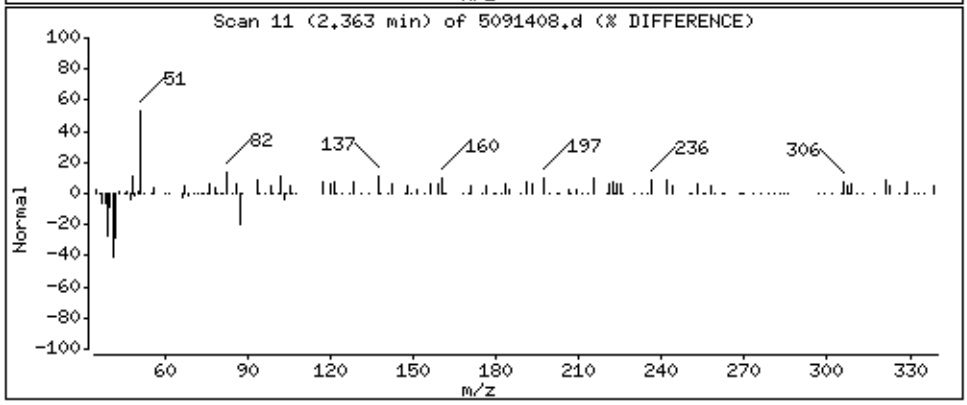












Data File: /chem/msd5.i/5-14sep.b/5091408.d

Date : 14-SEP-2007 12:57

Client ID:

Instrument: msd5.i

Sample Info: 200mL #05698

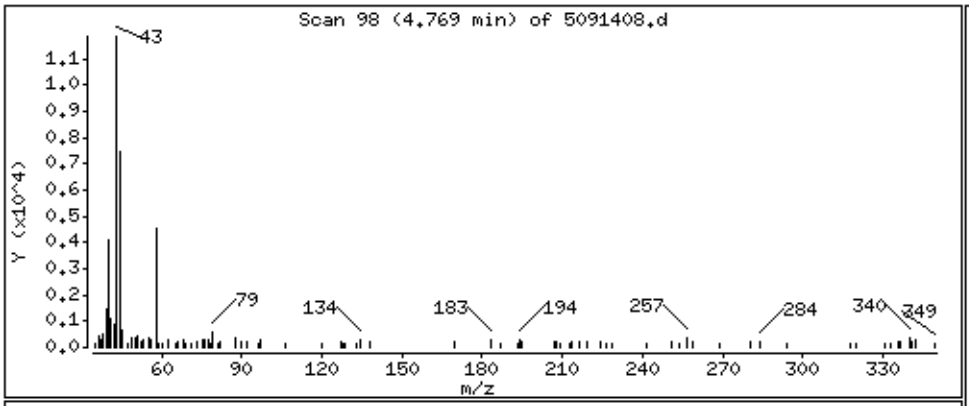
Operator: ct

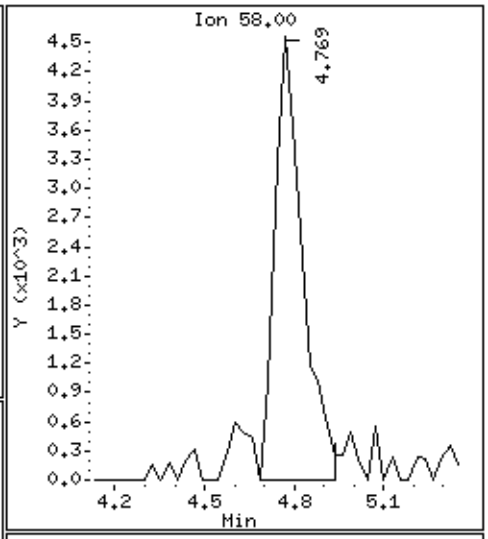
Column phase: RTx-624

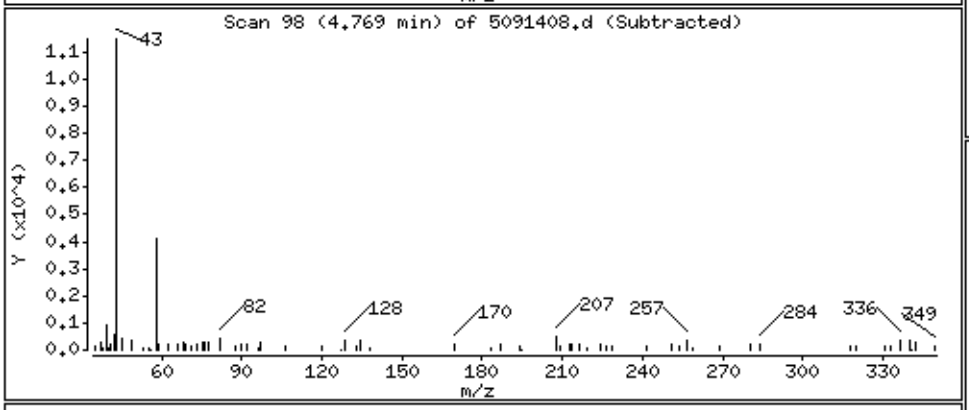
Column diameter: 0.53

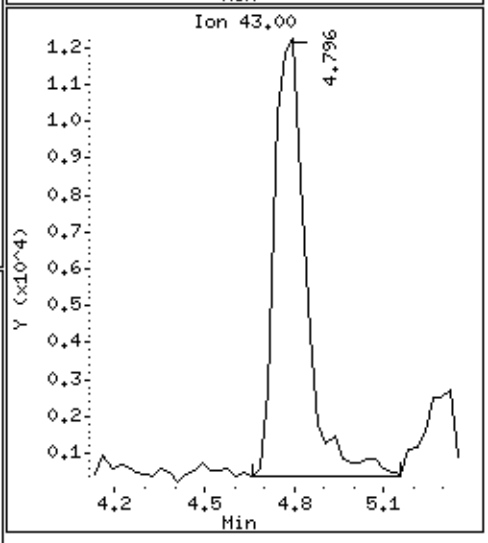
32 Acetone

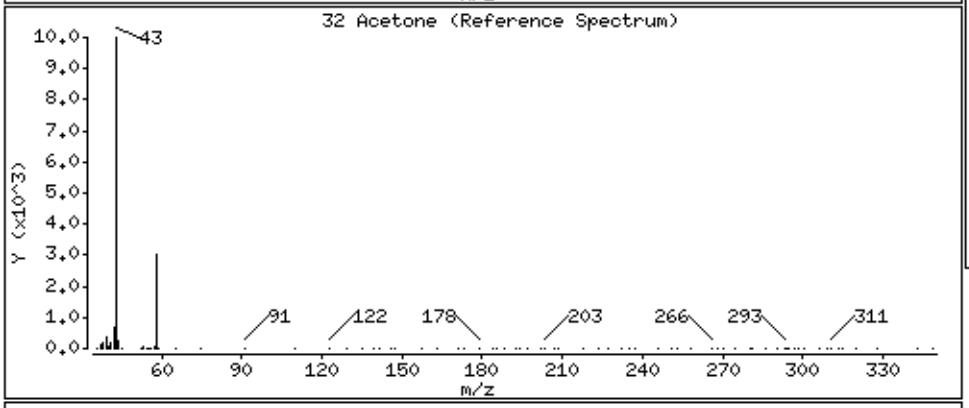
Concentration: 3.813 PPBV

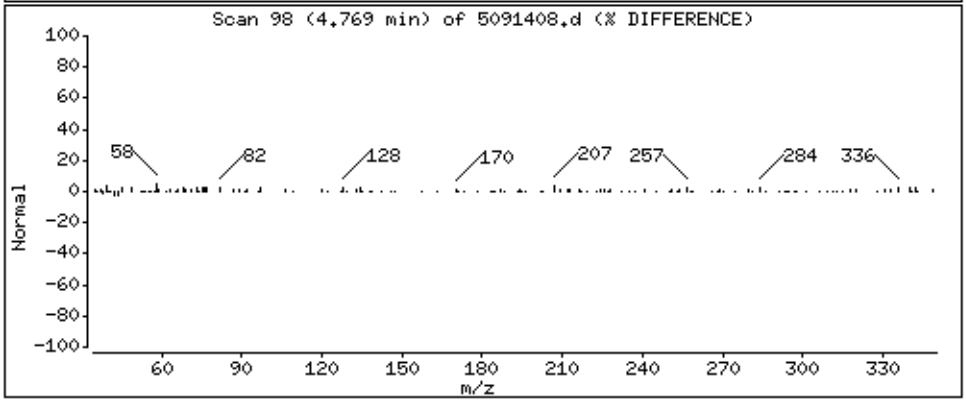












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: UWAMS5

Lab ID#: 0709128-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.68	0.83	3.4	4.1
Toluene	0.68	1.6	2.6	5.9
Heptane	0.68	0.71	2.8	2.9
Acetone	2.7	10	6.5	24
2-Butanone (Methyl Ethyl Ketone)	0.68	1.4	2.0	4.1
Ethanol	2.7	7.4	5.1	14

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UWAMS5

Lab ID#: 0709128-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091409**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.36**	**Date of Analysis: 9/14/07 01:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.68	0.83	3.4	4.1
Freon 114	0.68	Not Detected	4.8	Not Detected
Vinyl Chloride	0.68	Not Detected	1.7	Not Detected
Bromomethane	0.68	Not Detected	2.6	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.68	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Freon 113	0.68	Not Detected	5.2	Not Detected
Methylene Chloride	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.68	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Chloroform	0.68	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.68	Not Detected	3.7	Not Detected
Carbon Tetrachloride	0.68	Not Detected	4.3	Not Detected
Benzene	0.68	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.68	Not Detected	3.6	Not Detected
1,2-Dichloropropane	0.68	Not Detected	3.1	Not Detected
cis-1,3-Dichloropropene	0.68	Not Detected	3.1	Not Detected
Toluene	0.68	1.6	2.6	5.9
trans-1,3-Dichloropropene	0.68	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.68	Not Detected	3.7	Not Detected
Tetrachloroethene	0.68	Not Detected	4.6	Not Detected
1,2-Dibromoethane (EDB)	0.68	Not Detected	5.2	Not Detected
Chlorobenzene	0.68	Not Detected	3.1	Not Detected
Ethyl Benzene	0.68	Not Detected	3.0	Not Detected
m,p-Xylene	0.68	Not Detected	3.0	Not Detected
o-Xylene	0.68	Not Detected	3.0	Not Detected
Styrene	0.68	Not Detected	2.9	Not Detected
1,1,2,2-Tetrachloroethane	0.68	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.68	Not Detected	3.3	Not Detected
1,2,4-Trimethylbenzene	0.68	Not Detected	3.3	Not Detected
1,3-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
1,4-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
alpha-Chlorotoluene	0.68	Not Detected	3.5	Not Detected
1,2-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
1,3-Butadiene	0.68	Not Detected	1.5	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UWAMS5

Lab ID#: 0709128-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091409**	**Date of Collection: 9/5/07**	
Dil. Factor:	**1.36**	**Date of Analysis: 9/14/07 01:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.68	0.71	2.8	2.9
Bromodichloromethane	0.68	Not Detected	4.6	Not Detected
Dibromochloromethane	0.68	Not Detected	5.8	Not Detected
Cumene	0.68	Not Detected	3.3	Not Detected
Propylbenzene	0.68	Not Detected	3.3	Not Detected
Chloromethane	2.7	Not Detected	5.6	Not Detected
1,2,4-Trichlorobenzene	2.7	Not Detected	20	Not Detected
Hexachlorobutadiene	2.7	Not Detected	29	Not Detected
Acetone	2.7	10	6.5	24
Carbon Disulfide	0.68	Not Detected	2.1	Not Detected
2-Propanol	2.7	Not Detected	6.7	Not Detected
trans-1,2-Dichloroethene	0.68	Not Detected	2.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.68	1.4	2.0	4.1
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
1,4-Dioxane	2.7	Not Detected	9.8	Not Detected
4-Methyl-2-pentanone	0.68	Not Detected	2.8	Not Detected
2-Hexanone	2.7	Not Detected	11	Not Detected
Bromoform	0.68	Not Detected	7.0	Not Detected
4-Ethyltoluene	0.68	Not Detected	3.3	Not Detected
Ethanol	2.7	7.4	5.1	14
Methyl tert-butyl ether	0.68	Not Detected	2.4	Not Detected
3-Chloropropene	2.7	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Naphthalene	2.7	Not Detected	14	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091409.d
Lab Smp Id: 0709128-03A
Inj Date : 14-SEP-2007 13:29
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #35143
Misc Info : 0.5"Hg-5psi GEI
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1
Dil Factor: 1.36000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	342424	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	263235			46.97- 106.97	76.87
8.059	8.059 (1.000)	49	769628			198.32- 258.32	224.76
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1282440	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	216220			0.00- 47.50	16.86
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1014632	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	601711			0.00- 30.00	59.30
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	495161	24.5201	24.520	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	244095			0.00- 30.00	49.30
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1094691	23.8320	23.832	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	106997			0.00- 30.00	9.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	709629			0.00- 30.00	64.82
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	475834	23.4375	23.438	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	806161			135.18- 195.18	169.42
16.575	16.575 (1.105)	176	470464			66.98- 126.98	98.87
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.363 (0.286)	85	23539	0.60882	0.8280	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	7598			0.00- 30.00	32.28
26 Ethanol					CAS #: 64-17-5		
4.161	4.105 (0.516)	45	61845	5.43669	7.394	80.00- 120.00	100.00
4.133	4.133 (0.513)	43	9761			0.00- 30.00	15.78
4.161	4.105 (0.516)	46	27552			0.00- 30.00	44.55
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.592)	58	105465	7.44125	10.120	80.00- 120.00	100.00
4.769	4.741 (0.592)	43	320976			0.00- 30.00	304.34
67 2-Butanone					CAS #: 78-93-3		
7.700	7.672 (0.955)	72	9686	1.02230	1.390	80.00- 120.00	100.00
7.700	7.672 (0.955)	43	50467			600.26- 660.26	521.03
7.700	7.672 (0.955)	57	4069			0.00- 30.00	42.01
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	3442	0.52537	0.7145	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	14040			0.00- 30.00	407.90
9.469	9.497 (0.955)	71	2820			0.00- 30.00	81.93
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	60286	1.14507	1.557	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	39035			27.46- 87.46	64.75

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091409.d
Lab Smp Id: 0709128-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 0.5"Hg-5psi GEI

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	342424	-24.30
92 1,4-Difluorobenze	1787738	1072643	2502833	1282440	-28.26
125 Chlorobenzene-d5	1404975	842985	1966965	1014632	-27.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709128-03A
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 0.5"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.520	98.08	70-130
$ 107 Toluene-d8	25.000	23.832	95.33	70-130
$ 138 Bromofluorobenzene	25.000	23.438	93.75	70-130

Data File: /chem/msd5.i/5-14sep.b/5091409.d

Page 1

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

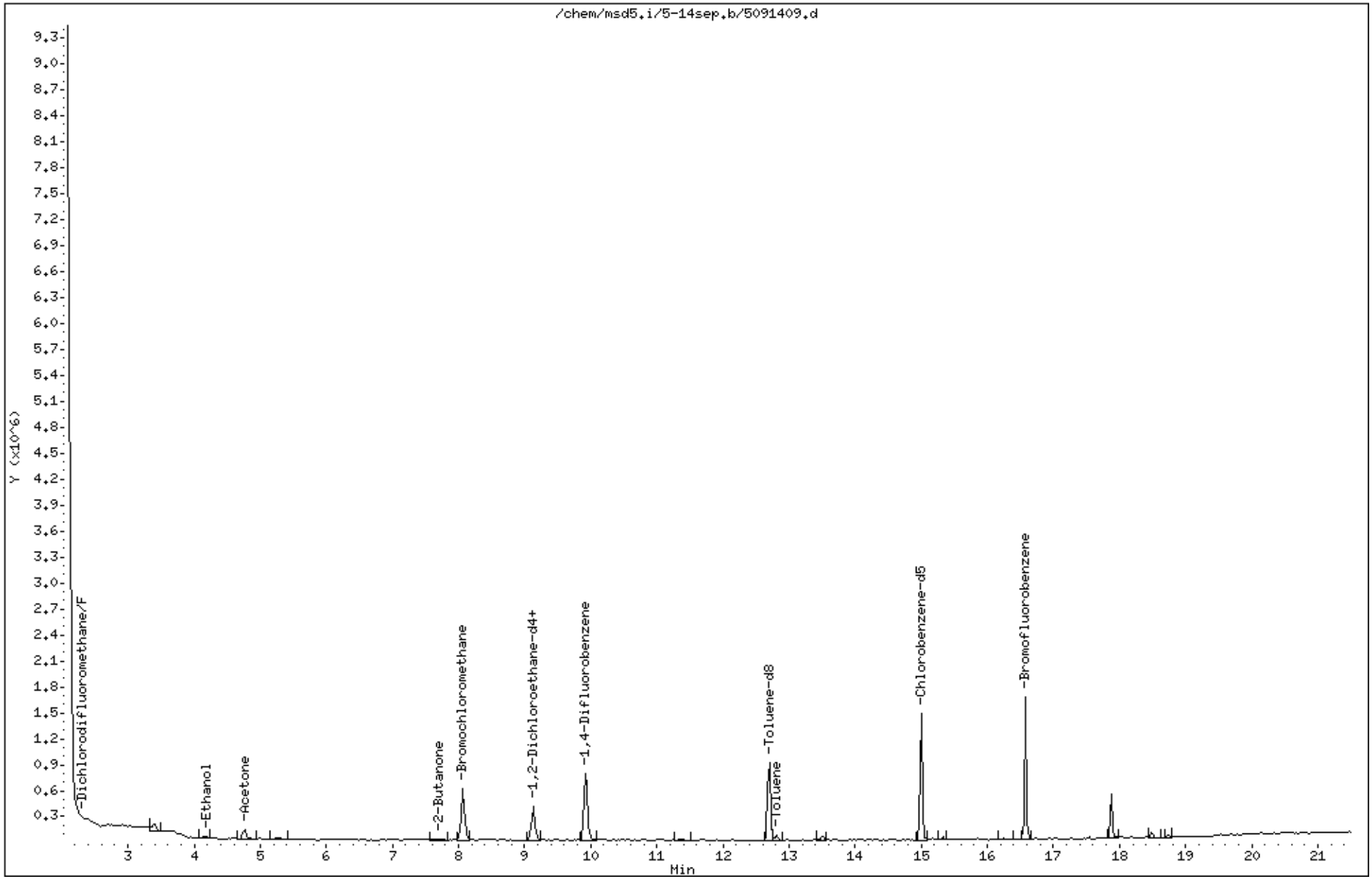
Sample Info: 200mL #35143

Operator: ct

Column phase: RTx-624

Column diameter: 0.53

0048



Data File: /chem/msd5.i/5-14sep.b/5091409.d

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

Sample Info: 200mL #35143

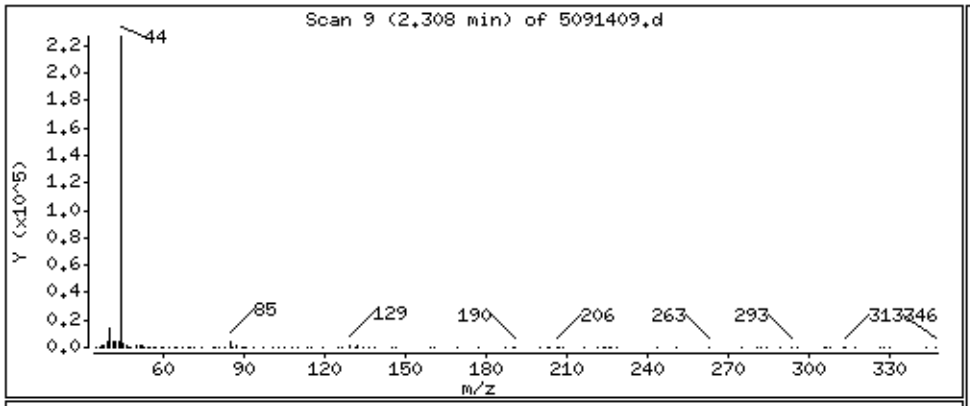
Operator: ct

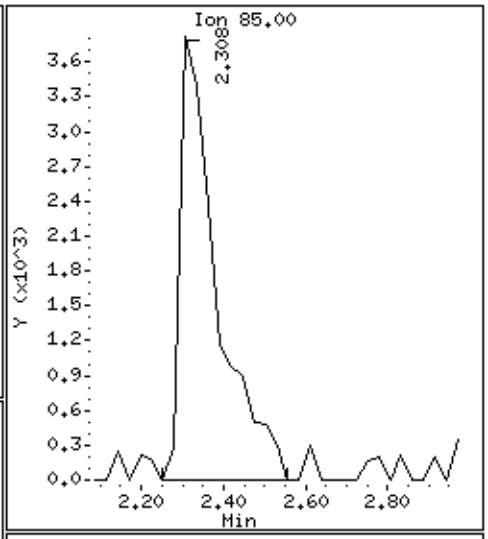
Column phase: RTx-624

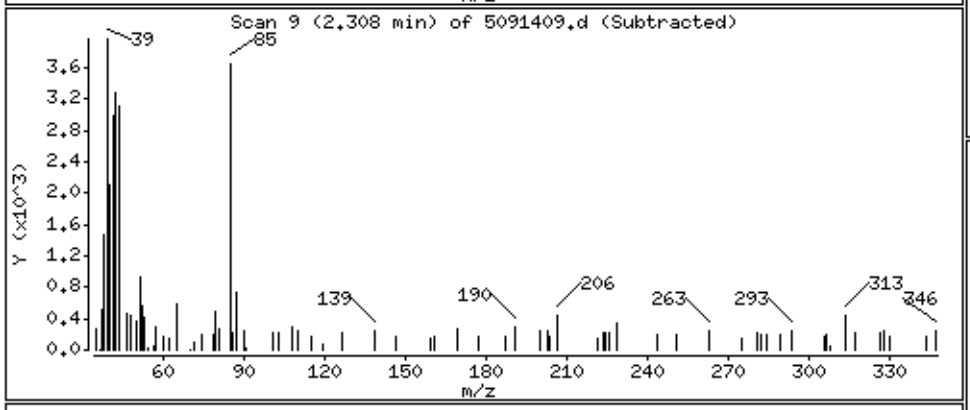
Column diameter: 0.53

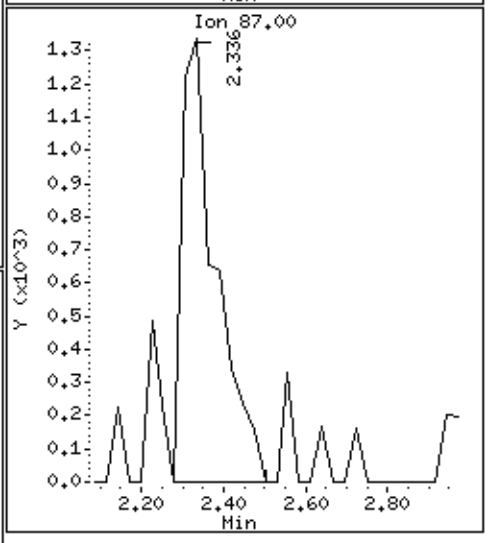
8 Dichlorodifluoromethane/Fr12

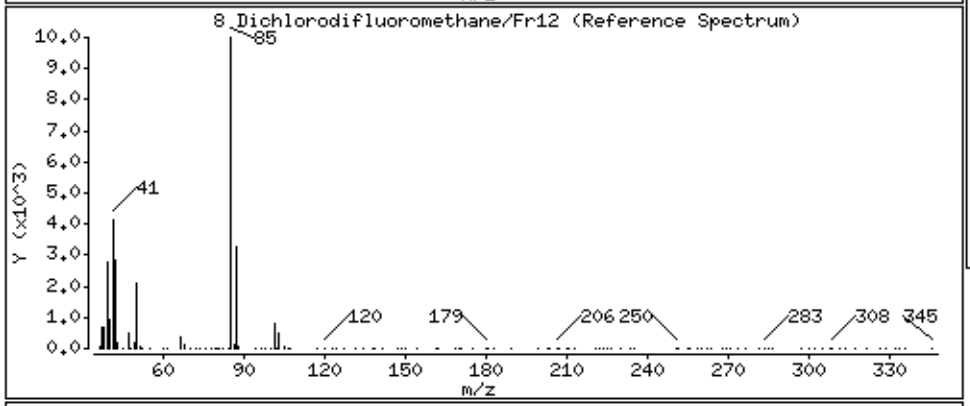
Concentration: 0.8280 PPBV

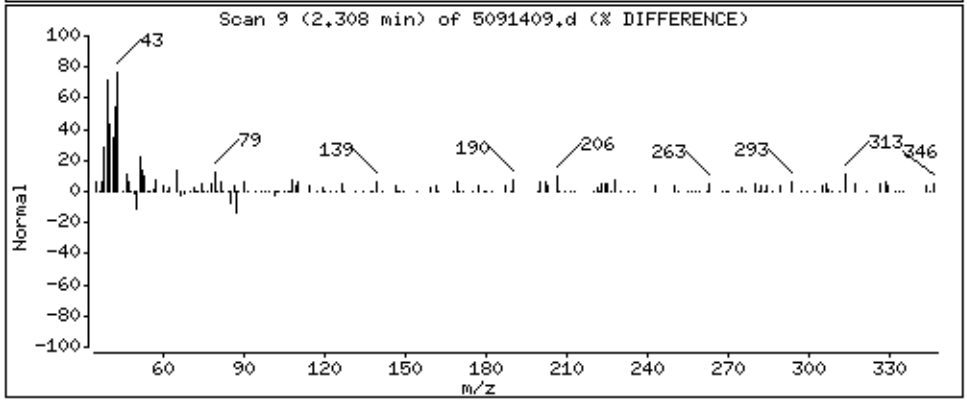












Data File: /chem/msd5.i/5-14sep.b/5091409.d

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

Sample Info: 200mL #35143

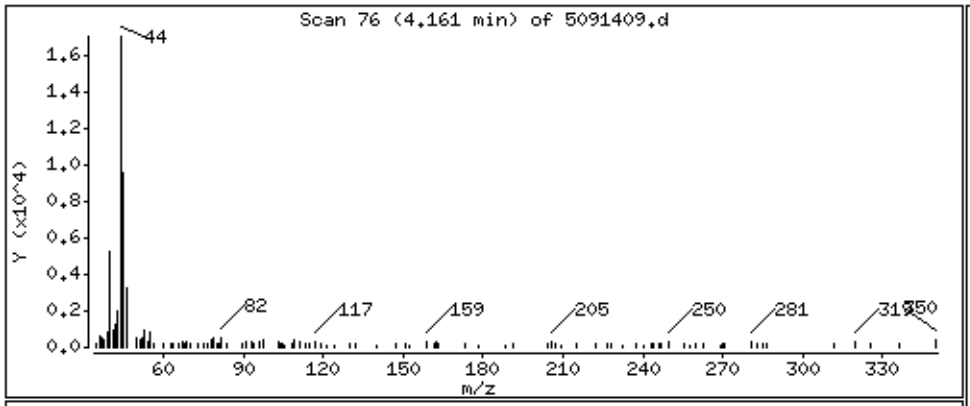
Operator: ct

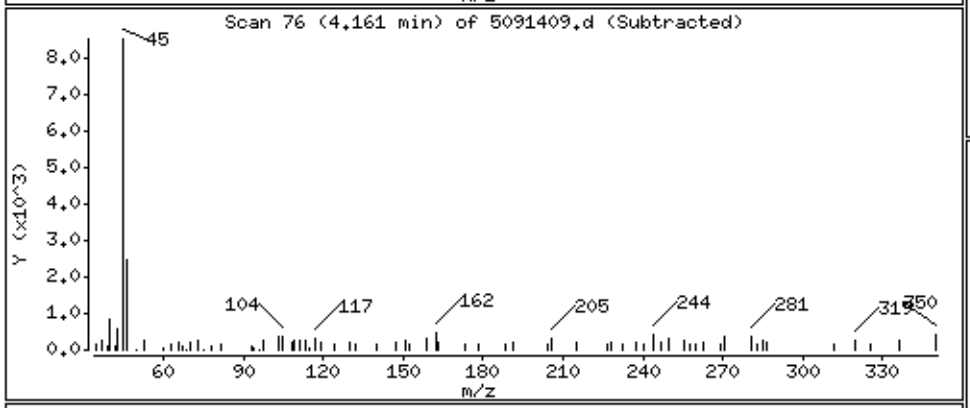
Column phase: RTx-624

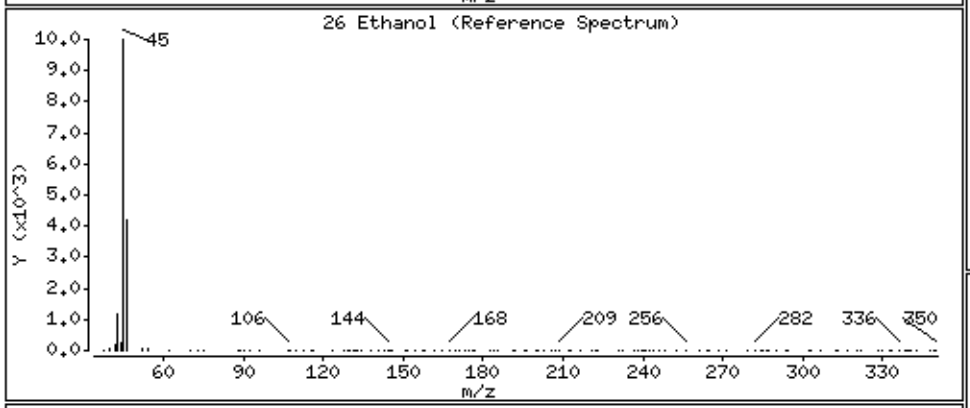
Column diameter: 0.53

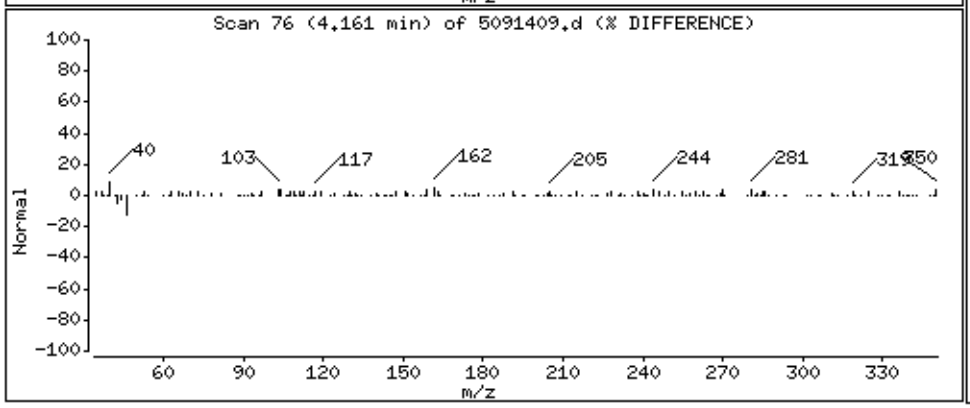
26 Ethanol

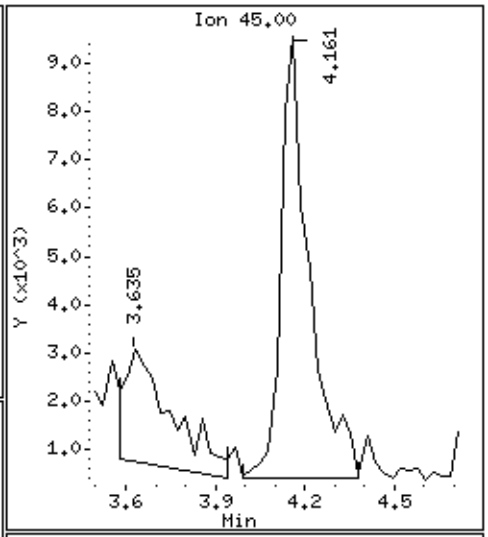
Concentration: 7.394 PPBV

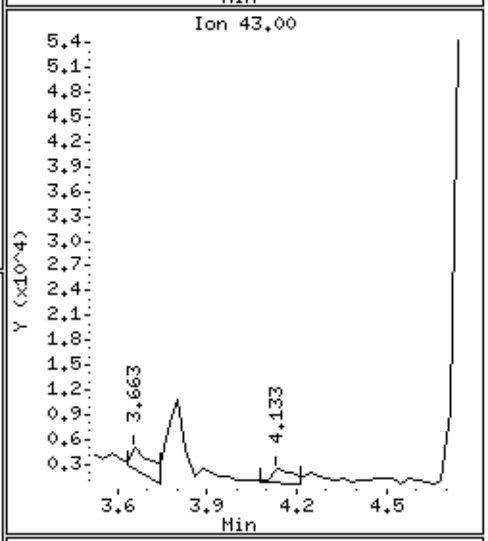


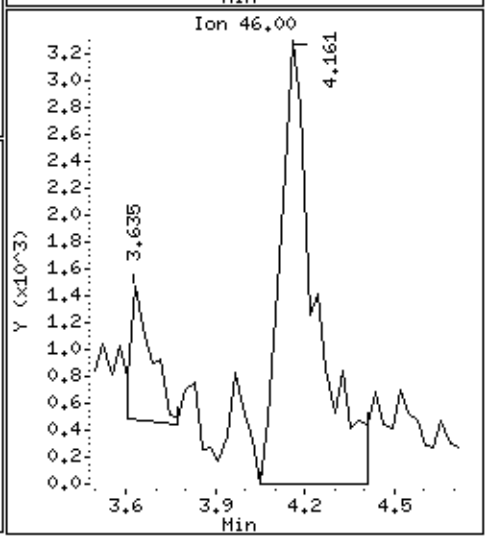












Data File: /chem/msd5.i/5-14sep.b/5091409.d

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

Sample Info: 200mL #35143

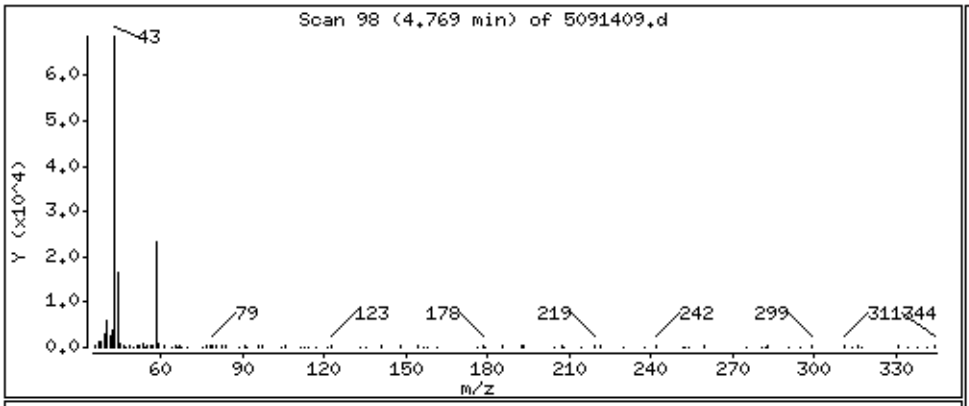
Operator: ct

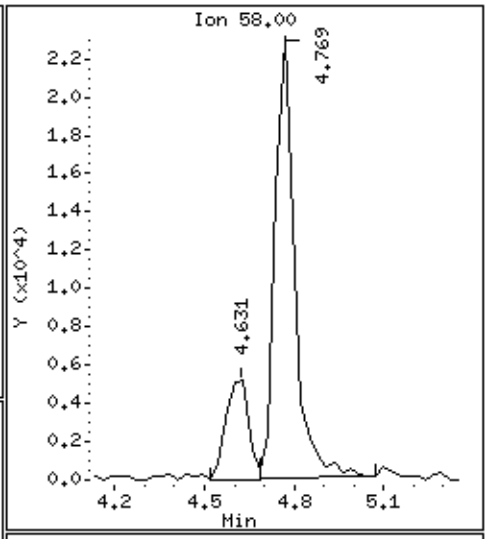
Column phase: RTx-624

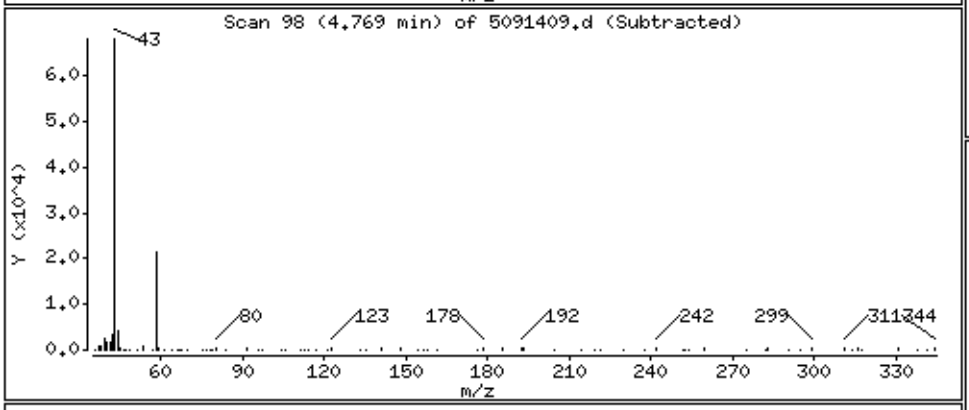
Column diameter: 0.53

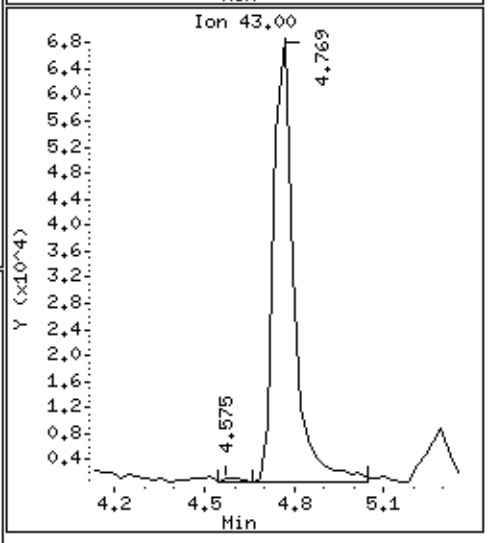
32 Acetone

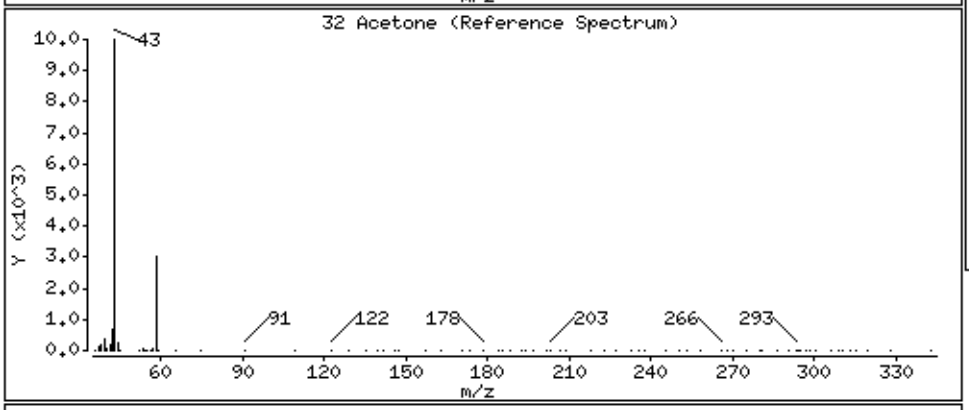
Concentration: 10.120 PPBV

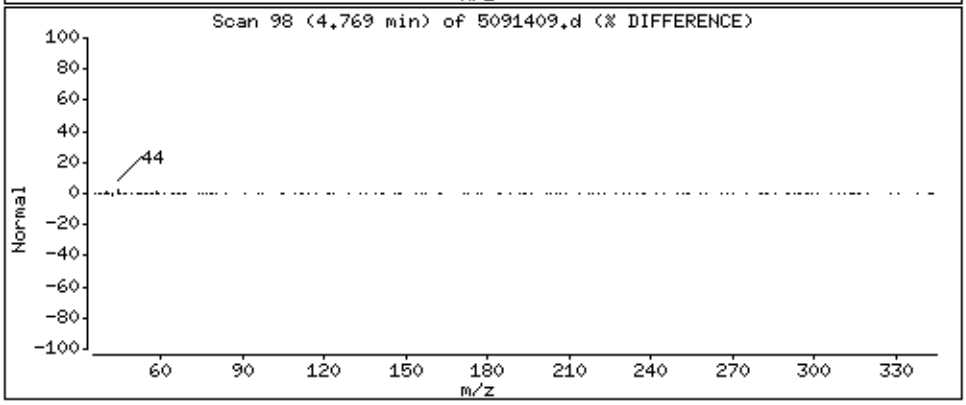












Data File: /chem/msd5.i/5-14sep.b/5091409.d

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

Sample Info: 200mL #35143

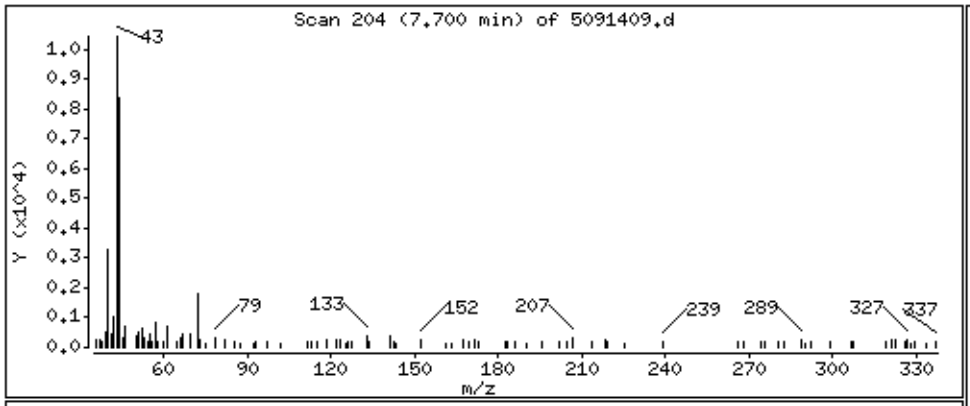
Operator: ct

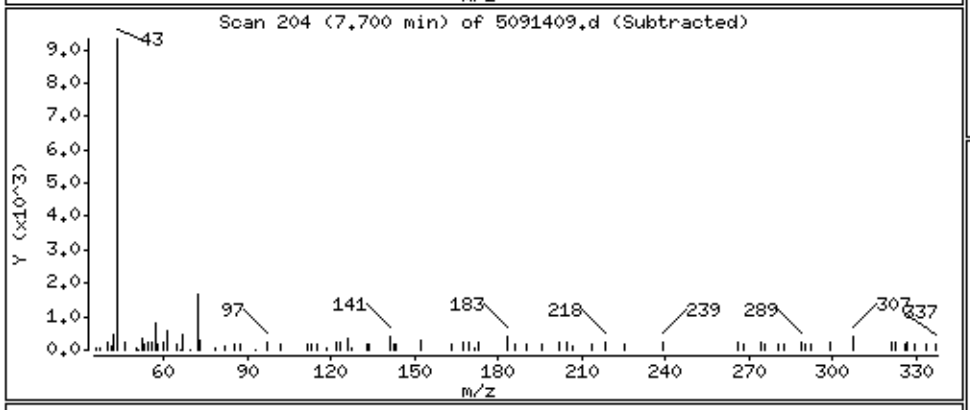
Column phase: RTx-624

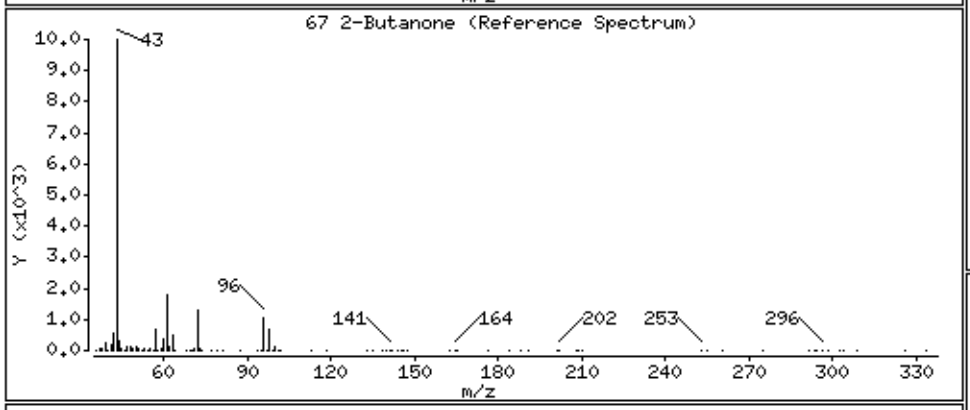
Column diameter: 0.53

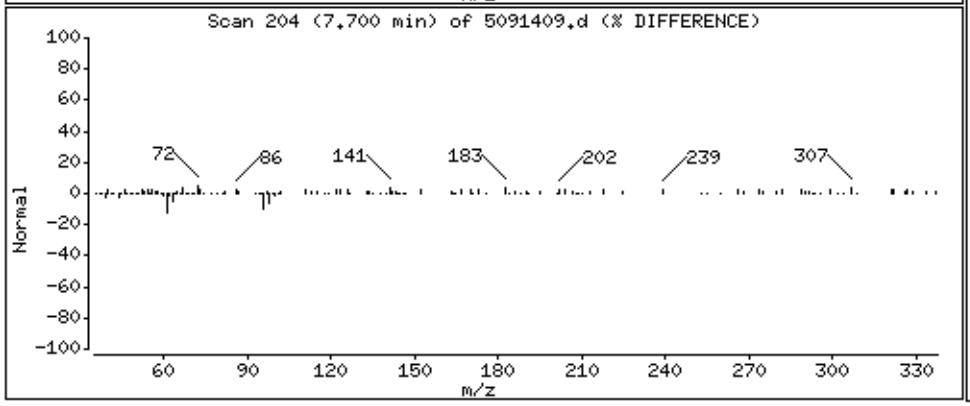
67 2-Butanone

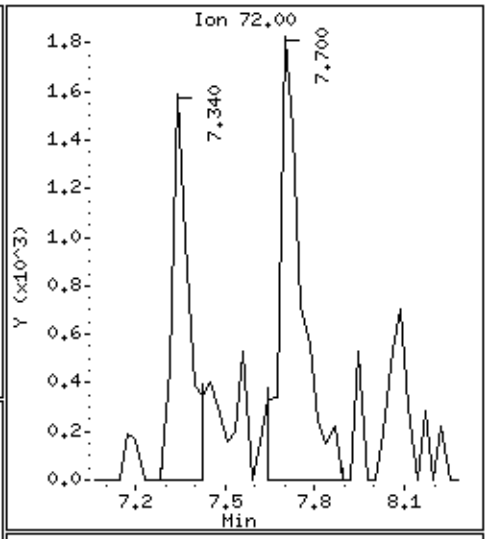
Concentration: 1.390 PPBV

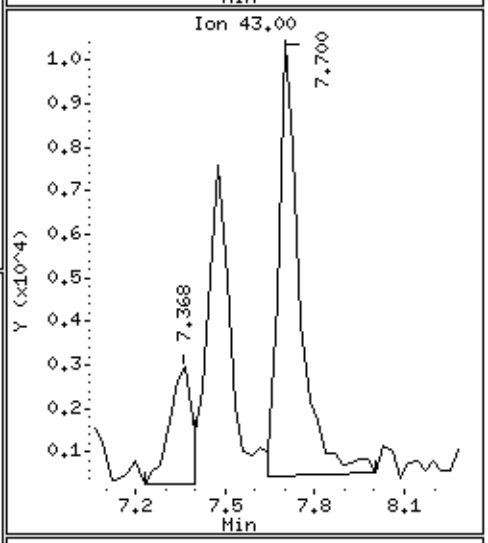


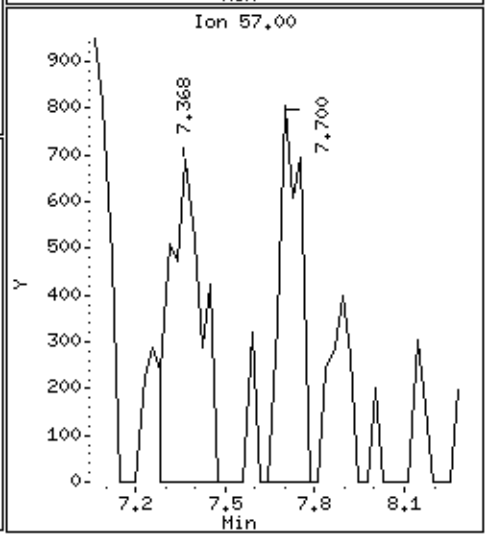












Data File: /chem/msd5.i/5-14sep.b/5091409.d

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

Sample Info: 200mL #35143

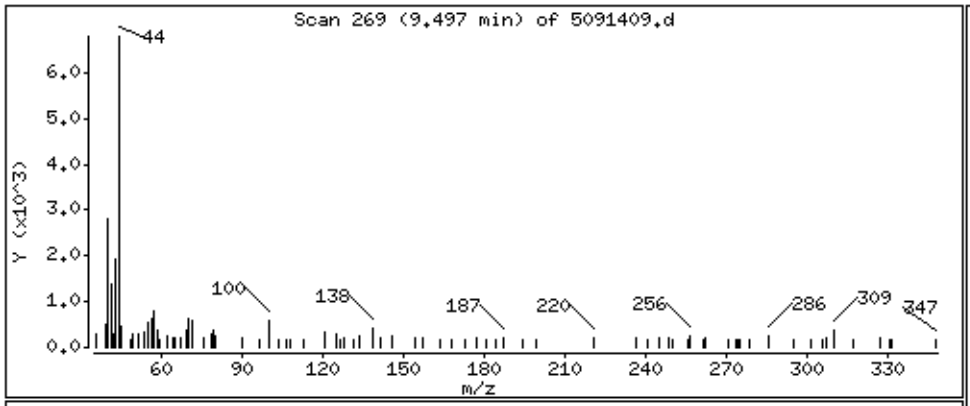
Operator: ct

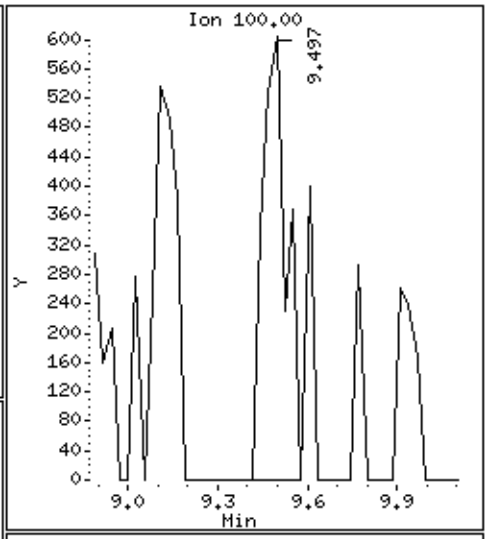
Column phase: RTx-624

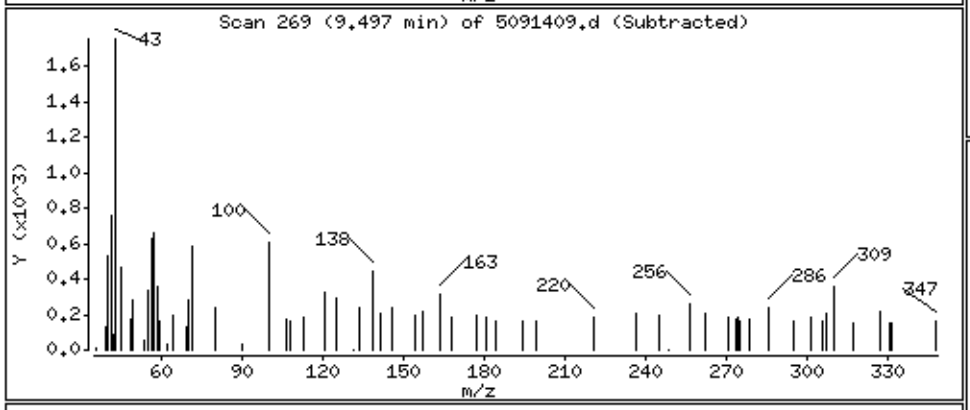
Column diameter: 0.53

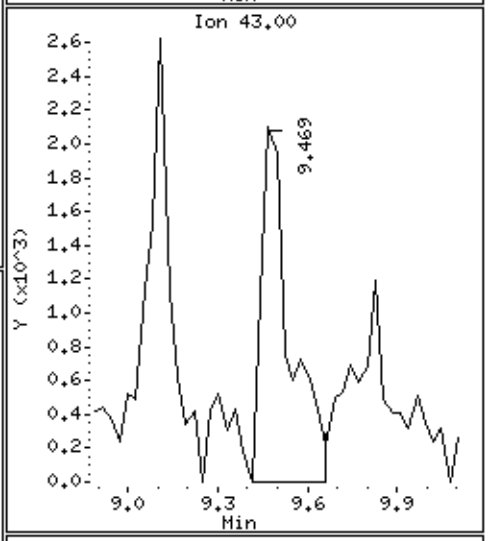
90 Heptane

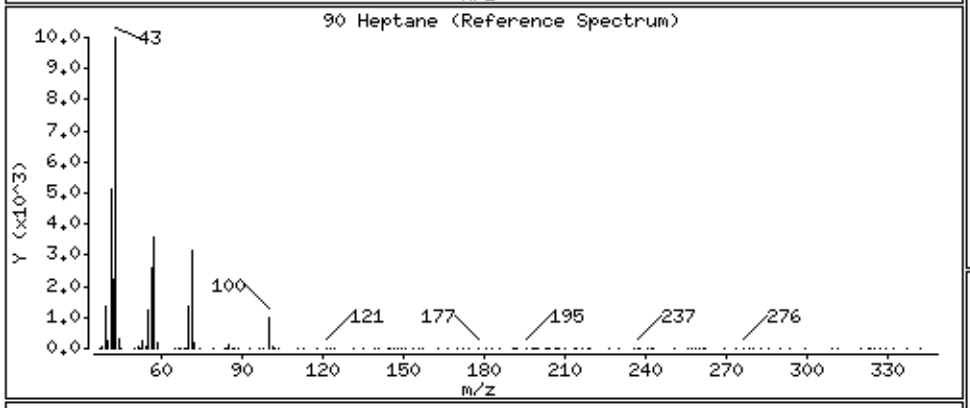
Concentration: 0.7145 PPBV

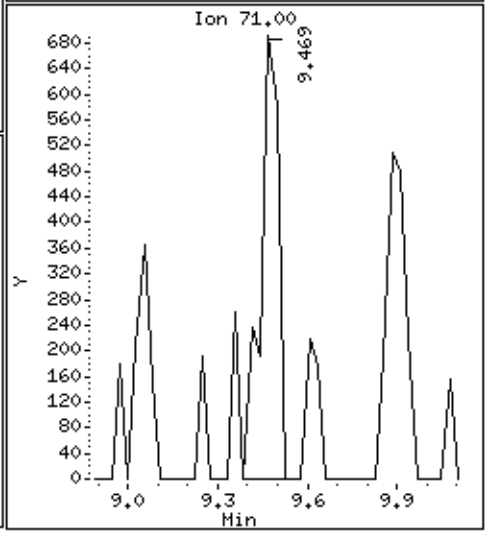


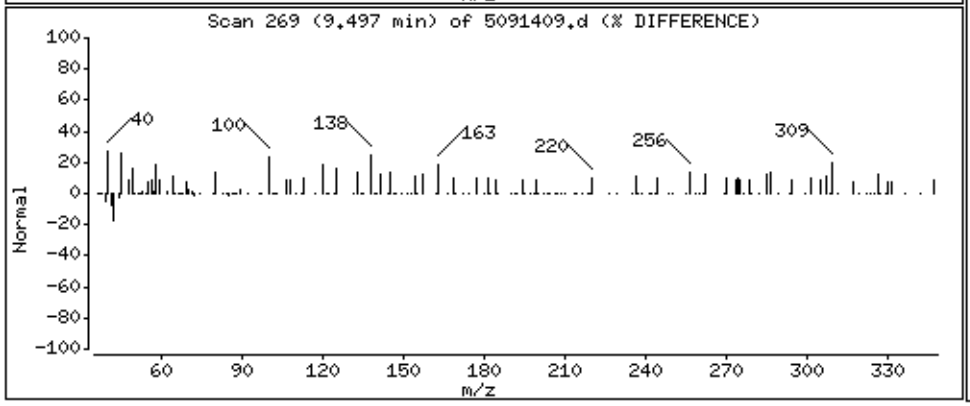












Data File: /chem/msd5.i/5-14sep.b/5091409.d

Date : 14-SEP-2007 13:29

Client ID:

Instrument: msd5.i

Sample Info: 200mL #35143

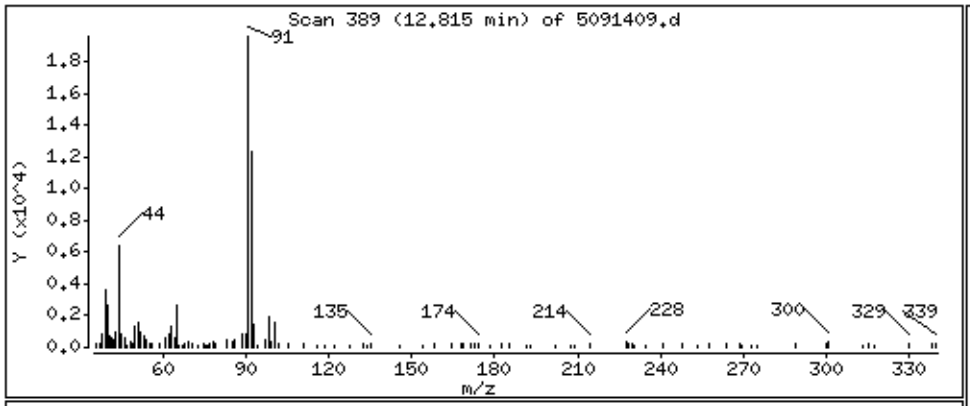
Operator: ct

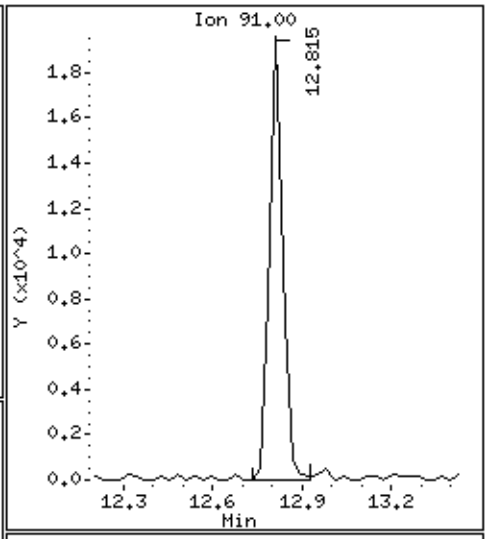
Column phase: RTx-624

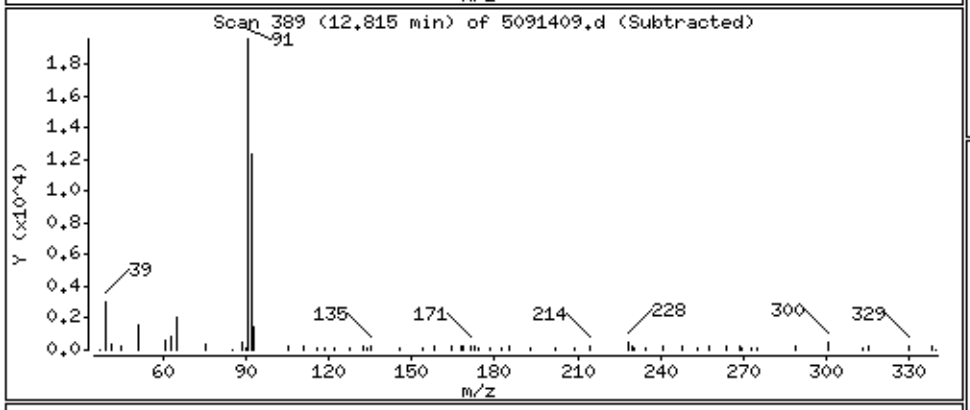
Column diameter: 0.53

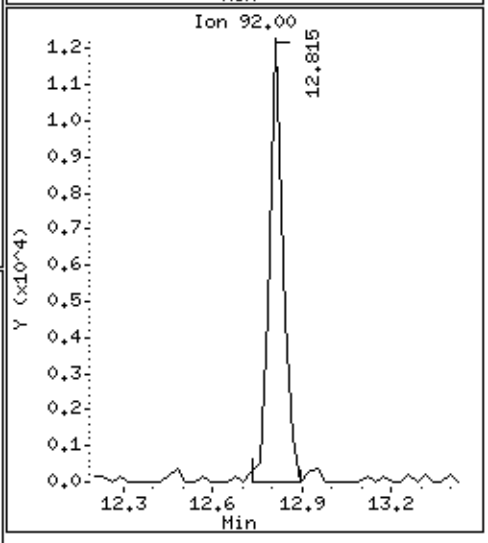
108 Toluene

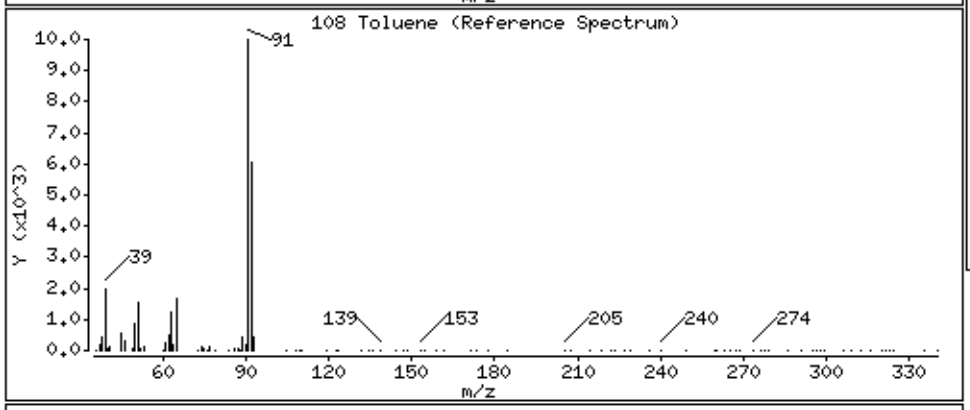
Concentration: 1.557 PPBV

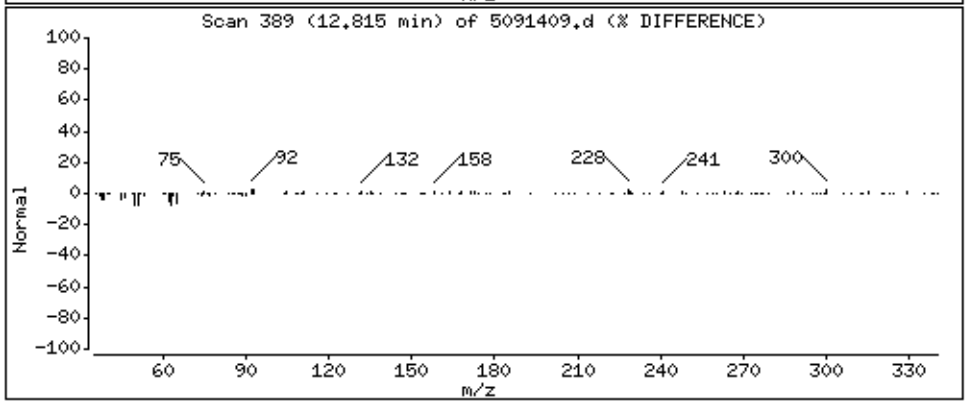












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: TRIP BLANK

Lab ID#: 0709128-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Disulfide	0.50	1.8	1.6	5.5
2-Butanone (Methyl Ethyl Ketone)	0.50	0.69	1.5	2.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TRIP BLANK

Lab ID#: 0709128-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091410**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 02:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TRIP BLANK

Lab ID#: 0709128-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091410**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 02:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	1.8	1.6	5.5
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	0.69	1.5	2.0
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091410.d
Lab Smp Id: 0709128-04A
Inj Date : 14-SEP-2007 14:02
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #34387
Misc Info : 4.6psi-4.6psi GEI
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	327035	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	251401			46.97- 106.97	76.87
8.059	8.059 (1.000)	49	739743			198.32- 258.32	226.20
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.939 (1.000)	114	1264950	25.0000		80.00- 120.00	100.00
9.911	9.939 (1.000)	88	216385			0.00- 47.50	17.11
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	999759	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	581262			0.00- 30.00	58.14
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	496729	25.7553	25.755	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	229925			0.00- 30.00	46.29
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1080831	23.8556	23.856	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	111567			0.00- 30.00	10.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	698293			0.00- 30.00	64.61
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	483916	24.1902	24.190	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	790779			135.18- 195.18	163.41
16.575	16.575 (1.105)	176	454980			66.98- 126.98	94.02
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	106186	1.76645	1.766	80.00- 120.00	100.00
67 2-Butanone					CAS #: 78-93-3		
7.699	7.672 (0.955)	72	6247	0.69036	0.6904	80.00- 120.00	100.00
7.699	7.672 (0.955)	43	44215			600.26- 660.26	707.78
7.699	7.672 (0.955)	57	4164			0.00- 30.00	66.66

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091410.d
Lab Smp Id: 0709128-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 4.6psi-4.6psi GEI

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	327035	-27.71
92 1,4-Difluorobenze	1787738	1072643	2502833	1264950	-29.24
125 Chlorobenzene-d5	1404975	842985	1966965	999759	-28.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709128-04A
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 4.6psi-4.6psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.755	103.02	70-130
$ 107 Toluene-d8	25.000	23.856	95.42	70-130
$ 138 Bromofluorobenzene	25.000	24.190	96.76	70-130

Data File: /chem/msd5.i/5-14sep.b/5091410.d

Date : 14-SEP-2007 14:02

Client ID:

Sample Info: 200mL #34387

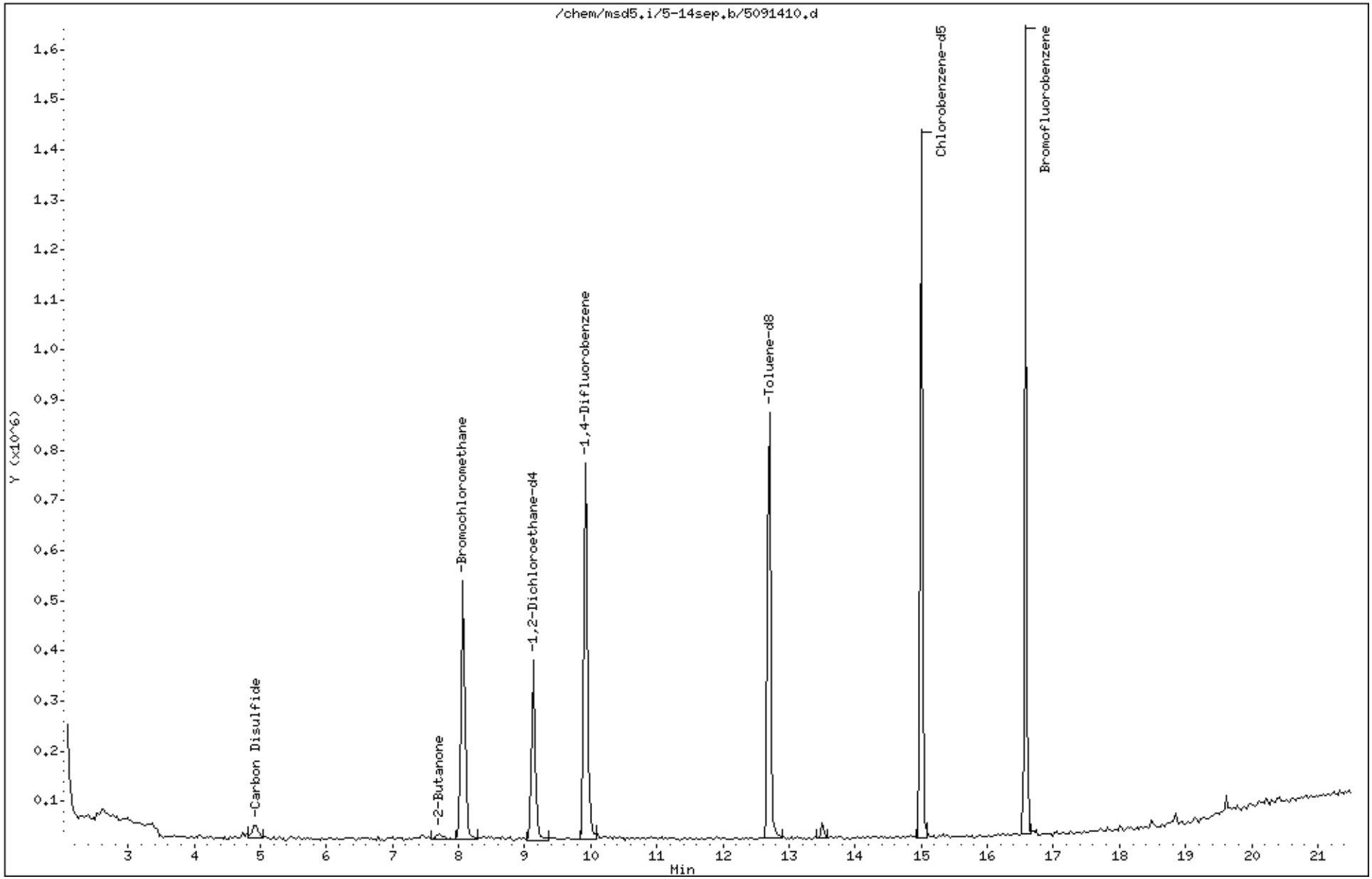
Column phase: RTx-624

Instrument: msd5.i

Operator: ct

Column diameter: 0.53

0062



Data File: /chem/msd5.i/5-14sep.b/5091410.d

Date : 14-SEP-2007 14:02

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34387

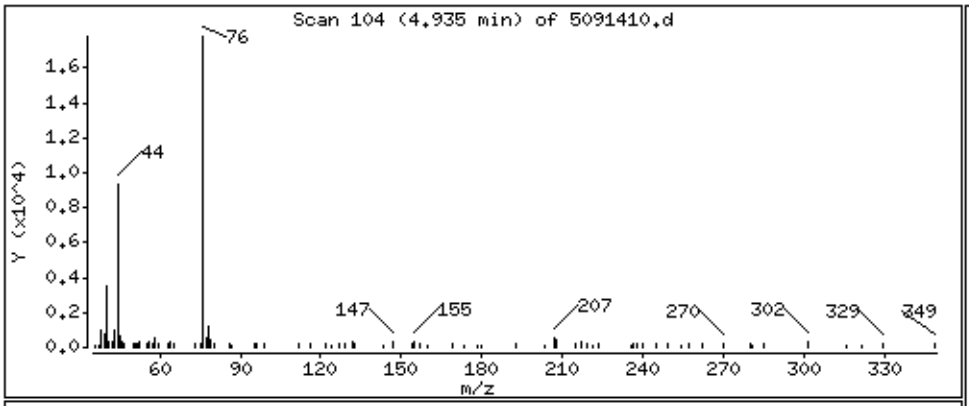
Operator: ct

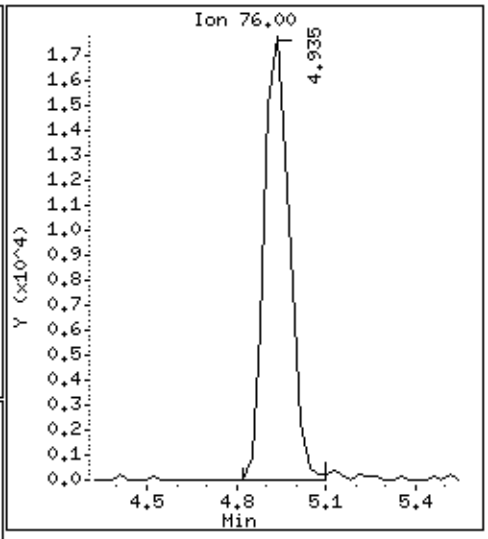
Column phase: RTx-624

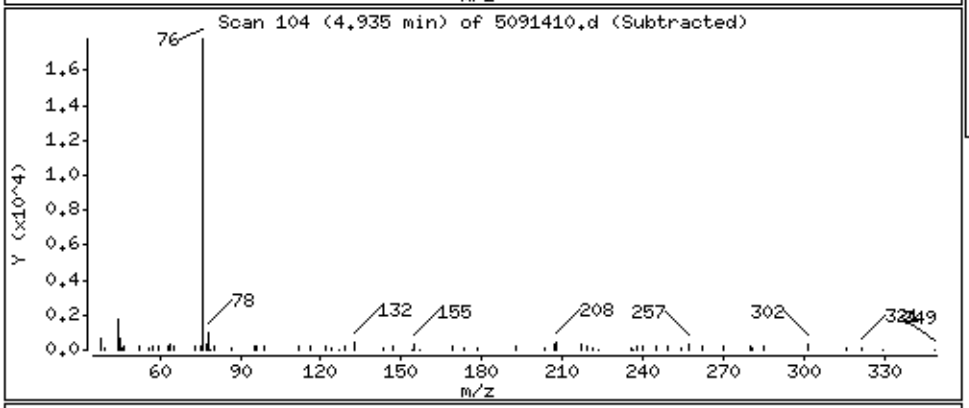
Column diameter: 0.53

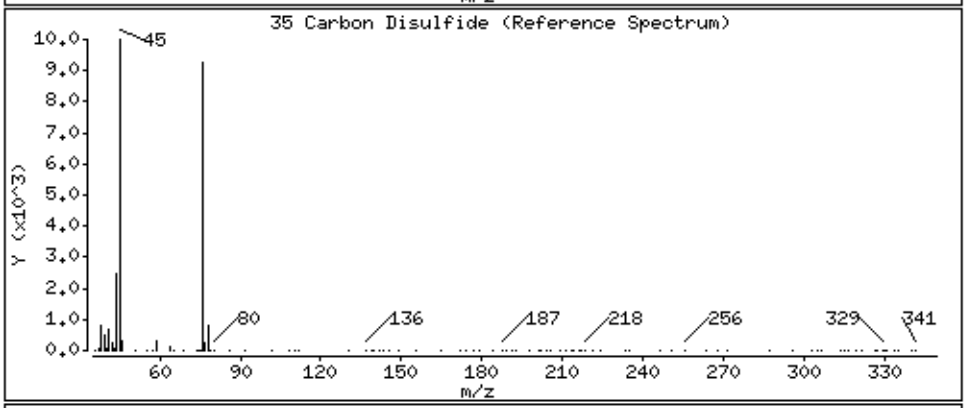
35 Carbon Disulfide

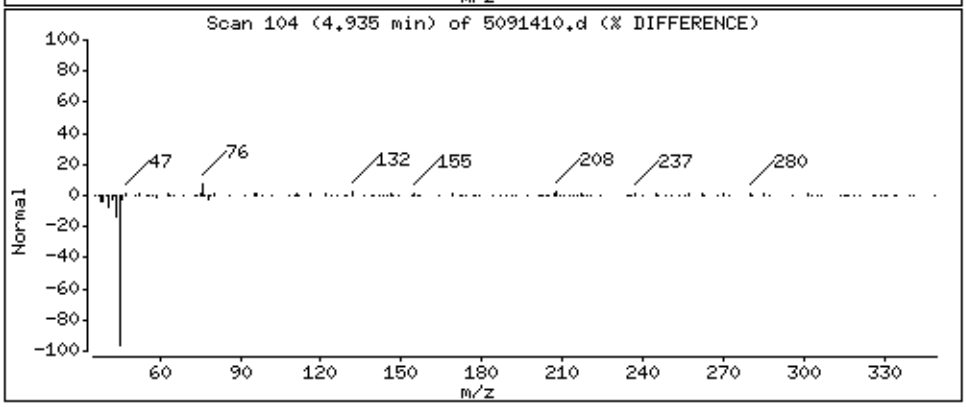
Concentration: 1.766 PPBV











Data File: /chem/msd5.i/5-14sep.b/5091410.d

Date : 14-SEP-2007 14:02

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34387

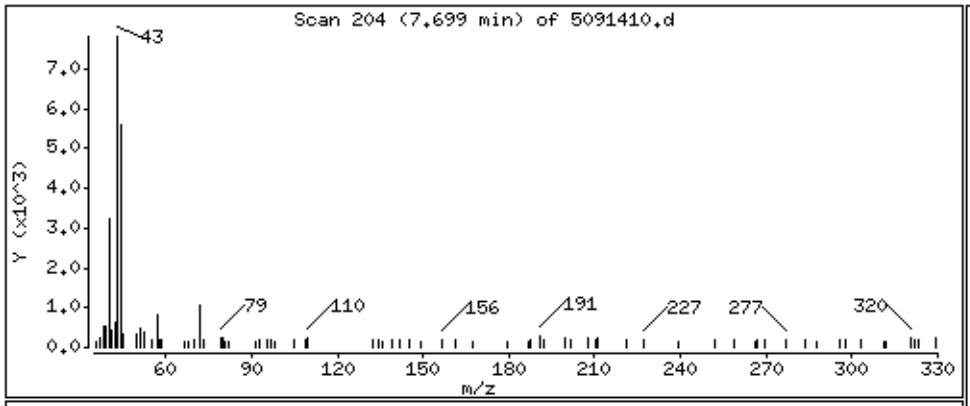
Operator: ct

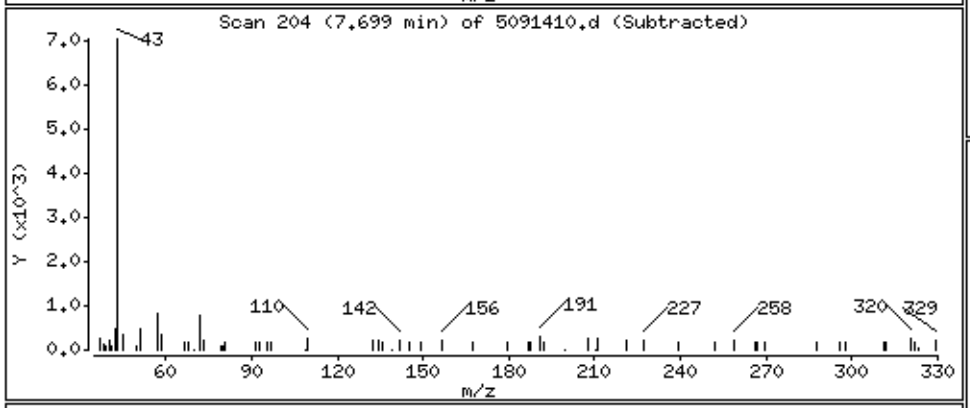
Column phase: RTx-624

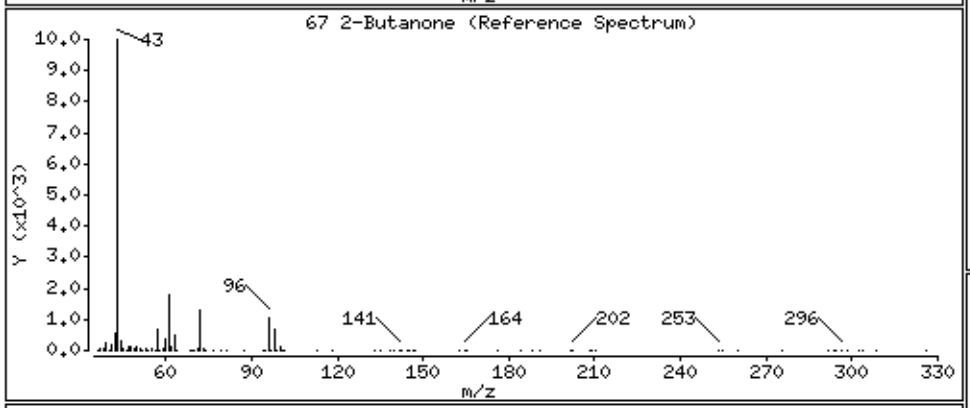
Column diameter: 0.53

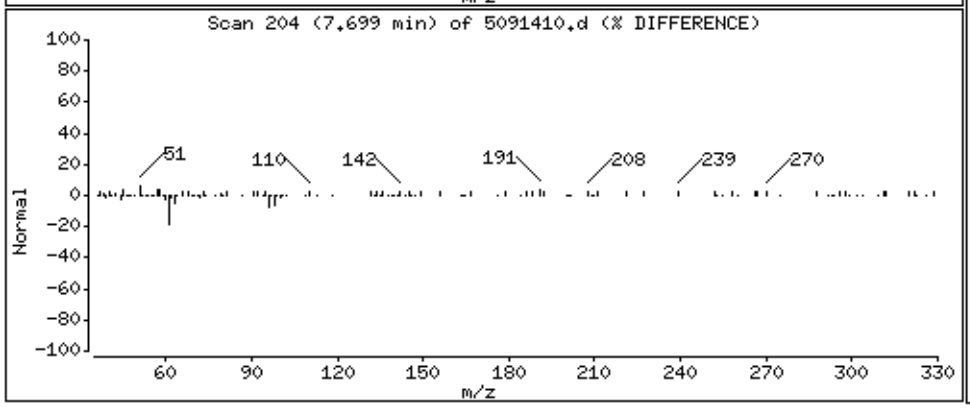
67 2-Butanone

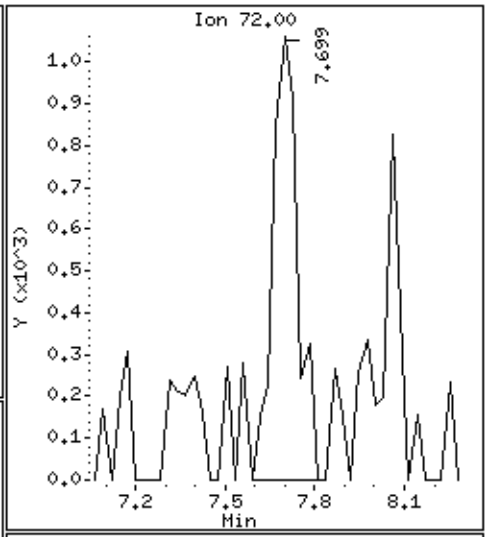
Concentration: 0.6904 PPBV

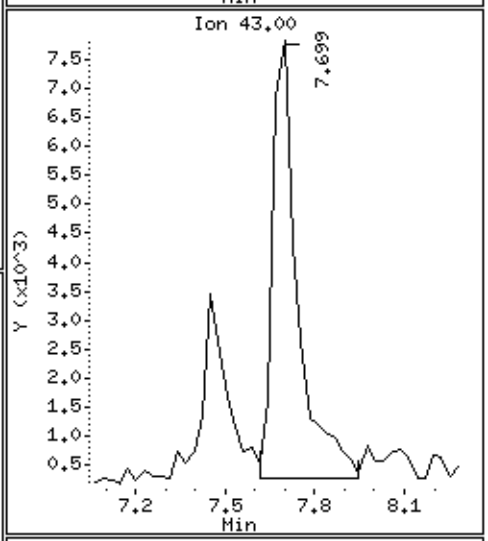


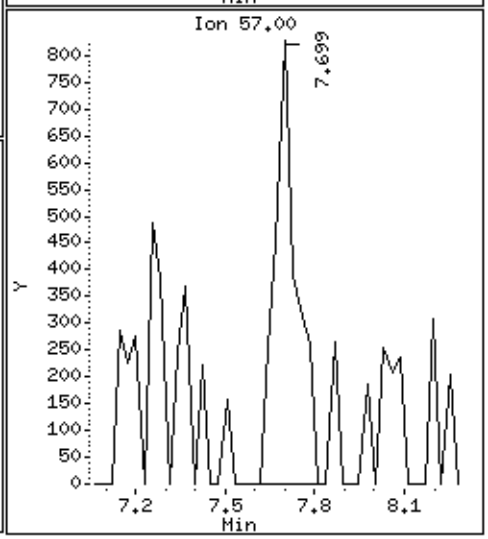












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0709128-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 10:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0709128-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 10:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091405.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 14-SEP-2007 10:43
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Humid Cart Ceert #15 Leg 7
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	357675	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	280339			46.97- 106.97	78.38
8.059	8.059 (1.000)	49	827451			198.32- 258.32	231.34
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1395847	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	240922			0.00- 47.50	17.26
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1115305	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	658593			0.00- 30.00	59.05
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	549510	26.0512	26.051	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	254941			0.00- 30.00	46.39
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1222116	24.4445	24.444	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	115575			0.00- 30.00	9.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	783480			0.00- 30.00	64.11
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	525028	23.5263	23.526	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	900597			135.18- 195.18	171.53
16.575	16.575 (1.105)	176	514264			66.98- 126.98	97.95

Report Date: 14-Sep-2007 10:53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091405.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: Humid Cart Ceert #15 Leg 7

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	357675	-20.93
92 1,4-Difluorobenze	1787738	1072643	2502833	1395847	-21.92
125 Chlorobenzene-d5	1404975	842985	1966965	1115305	-20.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 14-Sep-2007 10:53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: Humid Cart Ceert #15 Leg 7

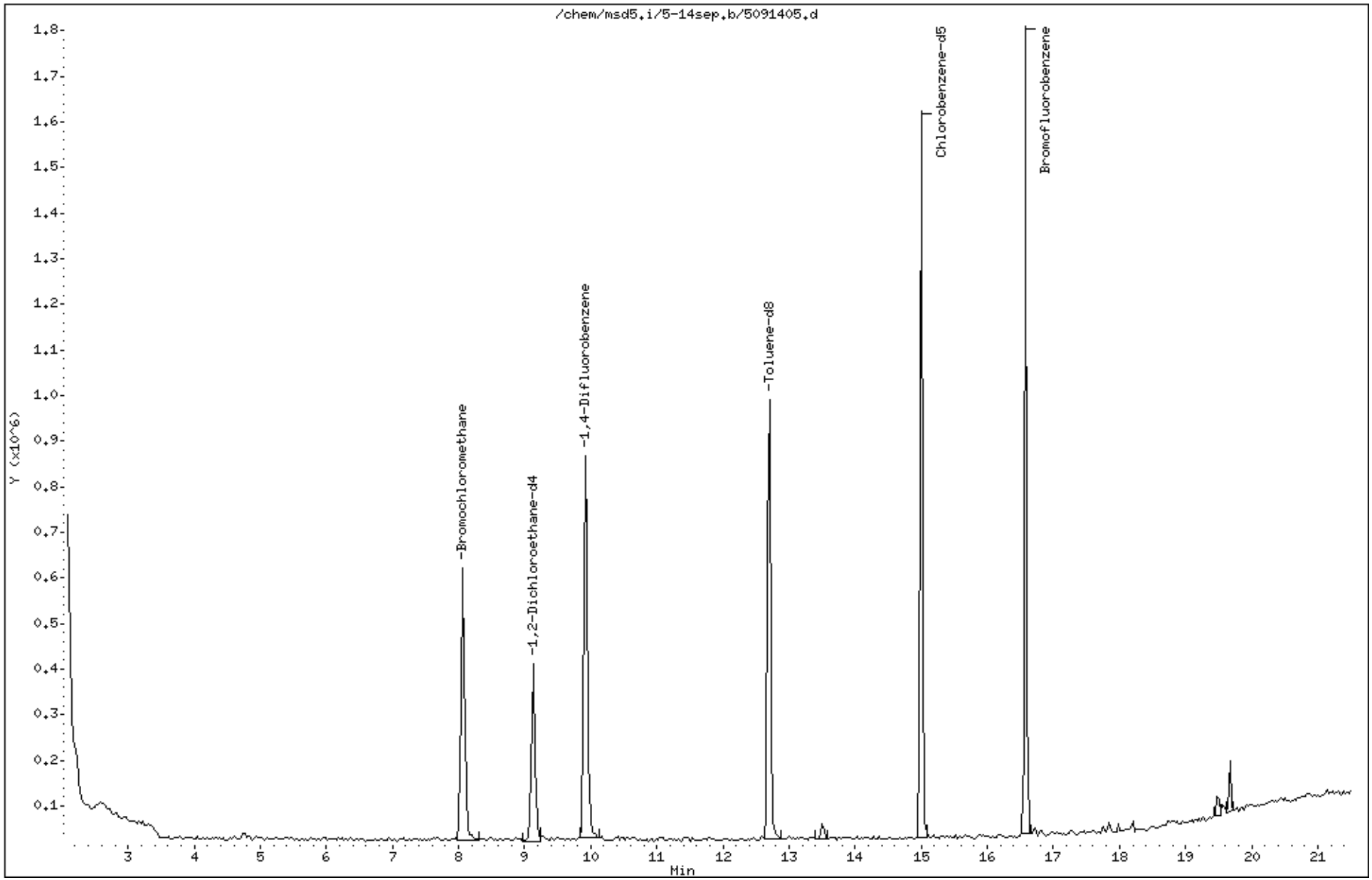
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	26.051	104.20	70-130
$ 107 Toluene-d8	25.000	24.444	97.78	70-130
$ 138 Bromofluorobenzene	25.000	23.526	94.11	70-130

0072

Data File: /chem/msd5.i/5-14sep.b/5091405.d
Date : 14-SEP-2007 10:43
Client ID: Lab Blank
Sample Info: 200mL #12941

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0709128

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	XXAMSX	100		96		94				0
02	XXAMSX Lab Duplicate	99		96		100				0
03	DWAMS1	106		101		93				0
04	UWAMS5	98		95		94				0
05	TRIP BLANK	103		95		97				0
06	Lab Blank	104		98		94				0
07	CCV	103		99		99				0
08	LCS	104		101		97				0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0709128
Lab File ID: 5091403.d
Date Analyzed: 09/14/2007
Instrument ID: msd5.i
Time Analyzed: 09:18 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1404975		15		1787738		9.94		452367		8.06	
	UPPER LIMIT	1966965		15.33		2502833		10.27		633314		08.39	
	LOWER LIMIT	842985		14.67		1072643		09.61		271420		07.73	
	CLIENT SAMPLE NO												
01	XXAMSX	1074399		15		1385373		9.91		363382		8.06	
02	XXAMSX Lab Duplicate	1037860		15		1311981		9.91		345971		8.06	
03	DWAMS1	1038645		15		1266899		9.91		320328		8.06	
04	UWAMS5	1014632		15		1282440		9.91		342424		8.06	
05	TRIP BLANK	999759		15		1264950		9.91		327035		8.06	
06	Lab Blank	1115305		15		1395847		9.91		357675		8.06	
07	CCV	1404975		15		1787738		9.94		452367		8.06	
08	LCS	1185551		15		1438500		9.91		365284		8.06	
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+40% of internal standard area'
'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: 5091407.d & 5091406.d

Lab Sample ID: 01A & 01AA Dilution: 1.68 & 1.68

Client Sample ID: & Date Analyzed: 9/14/07 & 9/14/07

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0
106-99-0	1,3-Butadiene	ND	U	ND	U	0
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0
123-91-1	1,4-Dioxane	ND	U	ND	U	0
540-84-1	2,2,4-Trimethylpentane	ND	U	ND	U	0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND	U	ND	U	0
591-78-6	2-Hexanone	ND	U	ND	U	0
67-63-0	2-Propanol	ND	U	ND	U	0
107-05-1	3-Chloropropene	ND	U	ND	U	0
622-96-8	4-Ethyltoluene	ND	U	ND	U	0
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0
67-64-1	Acetone	5.068		4.628		9.1
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0
71-43-2	Benzene	ND	U	ND	U	0
75-27-4	Bromodichloromethane	ND	U	ND	U	0
75-25-2	Bromoform	ND	U	ND	U	0
74-83-9	Bromomethane	ND	U	ND	U	0
75-15-0	Carbon Disulfide	1.928		1.872		2.9
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
108-90-7	Chlorobenzene	ND	U	ND	U	0
75-00-3	Chloroethane	ND	U	ND	U	0
67-66-3	Chloroform	ND	U	ND	U	0
74-87-3	Chloromethane	ND	U	ND	U	0
156-59-2	cis-1,2-Dichloroethene	ND	U	ND	U	0
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0
98-82-8	Cumene	ND	U	ND	U	0
110-82-7	Cyclohexane	ND	U	ND	U	0
124-48-1	Dibromochloromethane	ND	U	ND	U	0
64-17-5	Ethanol	3.777		3.822		1.2
100-41-4	Ethyl Benzene	ND	U	ND	U	0
75-69-4	Freon 11	ND	U	ND	U	0
76-13-1	Freon 113	ND	U	ND	U	0
76-14-2	Freon 114	ND	U	ND	U	0
75-71-8	Freon 12	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: 5091407.d & 5091406.d
Lab Sample ID: 01A & 01AA
Dilution: 1.68 & 1.68
Client Sample ID: &
Date Analyzed: 9/14/07 & 9/14/07

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
142-82-5	Heptane	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
108-38-3	m,p-Xylene	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
91-20-3	Naphthalene	ND	U	ND	U	0
95-47-6	o-Xylene	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
100-42-5	Styrene	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
109-99-9	Tetrahydrofuran	0.9004		ND	U	-->200<--
108-88-3	Toluene	0.924		0.8694		6.1
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0
79-01-6	Trichloroethene	ND	U	ND	U	0
75-01-4	Vinyl Chloride	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 09:48
End Cal Date : 12-SEP-2007 12:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-12sep.b/t14q912a.m
Cal Date : 12-Sep-2007 14:21 lrandolp
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-12sep.b/5091205.d
Level 2: /chem/msd5.i/5-12sep.b/5091206.d
Level 3: /chem/msd5.i/5-12sep.b/5091207.d
Level 4: /chem/msd5.i/5-12sep.b/5091208.d
Level 5: /chem/msd5.i/5-12sep.b/5091209.d
Level 6: /chem/msd5.i/5-12sep.b/5091210.d
Level 7: /chem/msd5.i/5-12sep.b/5091211.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	1.58462	2.03593	1.93786	1.79339	1.82273	1.83491	9.262
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.01865	2.53778	3.54060	3.18635	2.86821	2.78509	2.82278	18.603
9 Freon 114	+++++	2.61256	2.47870	3.16695	2.96635	2.70060	2.61148	2.75611	9.385
10 Chloromethane	+++++	+++++	2.01631	2.76200	2.59387	2.39007	2.18011	2.38847	12.624
11 Butane	+++++	+++++	0.52910	0.61589	0.58814	0.55061	0.53493	0.56374	6.588
12 1,3-Butadiene	+++++	1.52347	1.61425	2.22002	2.19842	2.06582	2.02180	1.94063	15.413
13 Vinyl Chloride	+++++	1.54021	1.73170	2.44897	2.34685	2.16920	2.11485	2.05863	17.194
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	1.17007	1.10818	1.63902	1.59299	1.52123	1.48286	1.41906	15.814
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	+++++	+++++	2.77516	3.65608	3.62282	3.34993	3.30948	3.34270	10.576

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Chloroethane	+++++	0.95245	0.88823	1.30135	1.20756	1.13144	1.12495	1.10100	14.090
20 Trichlorofluoromethane/Fr11	+++++	2.88297	2.63561	3.59359	3.46139	3.20447	3.18599	3.16067	11.259
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Ethanol	+++++	+++++	0.69852	0.92330	0.90610	0.79699	0.82765	0.83051	10.916
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Freon 113	+++++	1.98260	1.69657	2.32831	2.21489	2.06138		
	2.04388						2.05460	10.532
31 1,1-Dichloroethene	+++++	2.29765	2.23188	2.97348	2.96741	2.74823		
	2.74930						2.66132	12.154
32 Acetone	+++++	+++++	0.76502	1.13020	1.11161	1.07158		
	1.09537						1.03476	14.720
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Carbon Disulfide	+++++	4.06592	3.84856	5.21484	5.01962	4.72671		
	4.69596						4.59527	11.634
36 2-Propanol	+++++	+++++	2.78078	4.15483	4.30455	4.17104		
	4.21728						3.92569	16.371
37 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 3-Chloropropene	+++++	+++++	0.61094	0.83403	0.83003	0.76612	0.74321	0.75687	11.978
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	2.49008	1.92873	2.57890	2.55375	2.41087	2.35255	2.38581	10.042
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	2.09563	1.67719	1.53254	1.23101	1.11393	0.93600	1.43105	29.617
47 trans-1,2-Dichloroethene	+++++	1.91335	1.38976	1.89559	1.83412	1.76301	1.70984	1.75094	11.030

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	2.96080	2.72390	3.92738	3.81033	3.61476	3.65427	3.44857	14.165
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.88097	2.39844	3.34986	3.22446	3.02638	3.07791	2.99300	11.134
56 Vinyl Acetate	+++++	+++++	0.22271	0.36746	0.38946	0.40133	0.42629	0.36145	22.247
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	2.07645	1.92001	2.52337	2.43143	2.28481	2.28591	2.25366	9.904
67 2-Butanone	+++++	0.57760	0.52994	0.79446	0.75323	0.73362	0.76157	0.69174	15.859

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
70 Tetrahydrofuran	+++++	3.51336	2.22090	2.88243	2.86495	2.72509		
	2.75095						2.82628	14.667
72 Chloroform	3.27838	2.08676	2.18144	2.74657	2.67227	2.55123		
	2.55133						2.58114	15.235
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
74 Cyclohexane	+++++	1.69902	1.48118	2.19685	2.17486	2.03600		
	2.04222						1.93836	14.762
75 1,1,1-Trichloroethane	+++++	2.04812	1.91959	2.69069	2.60400	2.51454		
	2.50850						2.38091	13.327
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
77 Carbon Tetrachloride	+++++	1.76798	1.64067	2.21972	2.19369	2.15484		
	2.16823						2.02419	12.449
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 2,2,4-Trimethylpentane	+++++	7.12086	7.24540	10.24912	10.23126	9.95638		
	10.06712						9.14502	16.665
81 Benzene	1.52474	0.92587	0.84299	1.18397	1.14956	1.09346		
	1.03819						1.10839	19.823
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,2-Dichloroethane	+++++	0.40654	0.43726	0.56260	0.54919	0.52315		
	0.49873						0.49624	12.572
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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	200.000 Level 7							
90 Heptane	+++++	0.12397	0.11146	0.13639	0.13858	0.12987		
	0.12604						0.12772	7.662
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 Trichloroethene	+++++	0.36094	0.34133	0.47965	0.46220	0.44320		
	0.42180						0.41819	13.330
94 Methyl Cyclohexane	+++++	0.52569	0.45169	0.69412	0.67296	0.65110		
	0.62289						0.60307	15.692
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
98 1,2-Dichloropropane	+++++	0.44439	0.34908	0.44807	0.44560	0.42809		
	0.40665						0.42031	9.097
99 1,4-Dioxane	+++++	+++++	0.28708	0.33057	0.32474	0.32007		
	0.30536						0.31357	5.582
100 Bromodichloromethane	+++++	0.40647	0.48243	0.66967	0.65901	0.64475		
	0.61463						0.57949	18.794

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.33613	0.28006	0.48796	0.48692	0.48355		
	0.46524						0.42331	21.583
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.26311	0.25670	0.43882	0.44087	0.42774		
	0.42306						0.37505	23.853
108 Toluene	+++++	0.81672	0.85369	1.16941	1.14148	1.11037		
	1.06632						1.02633	14.850
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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	200.000 Level 7							
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.36570	0.34375	0.60299	0.60699	0.59539		
	0.60860						0.52057	24.729
114 1,1,2-Trichloroethane	+++++	0.38689	0.38320	0.51149	0.46796	0.44696		
	0.43690						0.43890	11.157
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 Tetrachloroethene	+++++	0.48235	0.44282	0.58476	0.55366	0.51538		
	0.49351						0.51208	9.976
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 2-Hexanone	+++++	+++++	0.48473	0.76791	0.76457	0.76867		
	0.78174						0.71353	17.948
120 Dibromochloromethane	+++++	0.41184	0.45535	0.72058	0.70216	0.69210		
	0.68233						0.61073	22.674
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
122 1,2-Dibromoethane	+++++	0.51429	0.48896	0.75716	0.72020	0.68623		
	0.68313						0.64166	17.460
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Chlorobenzene	+++++	0.81332	0.86385	1.13027	1.07575	1.04195		
	1.01493						0.99001	12.574
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.55069	0.46210	0.62559	0.59685	0.57417		
	0.54982						0.55987	9.988
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 m,p-Xylene	+++++	0.63744	0.57676	0.77960	0.74637	0.71547		
	0.69479						0.69174	10.711
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
132 o-Xylene	+++++	0.35039	0.49934	0.72311	0.69143	0.65907		
	0.63848						0.59364	23.904

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 09:48
End Cal Date : 12-SEP-2007 12:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-12sep.b/t14q912a.m
Cal Date : 12-Sep-2007 14:21 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
133 Styrene	1.08062	0.68968	0.65790	1.12417	1.08404	1.09726		
	1.07906						0.97325	21.099
134 Bromoform	+++++	0.44470	0.43713	0.64699	0.66202	0.64755		
	0.62611						0.57742	18.423
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
136 Cumene	2.20803	1.21980	1.43120	2.18929	2.09856	2.03919		
	1.71321						1.84275	21.385
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.68521	0.81476	1.06123	0.99056	0.97649		
	0.93184						0.91001	15.056
142 Propylbenzene	+++++	1.91395	1.86411	2.58409	2.49328	2.46188		
	2.34595						2.27721	13.639
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 09:48
End Cal Date : 12-SEP-2007 12:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-12sep.b/t14q912a.m
Cal Date : 12-Sep-2007 14:21 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
144 4-Ethyltoluene	+++++	1.34809	1.54174	2.13331	2.14878	2.05643		
	1.98591						1.86904	18.150
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.42298	1.34618	2.03214	1.95982	1.89802		
	1.59537						1.70908	17.147
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	0.99659	1.17692	1.75703	1.71190	1.69942		
	1.64928						1.49852	21.743
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 09:48
End Cal Date : 12-SEP-2007 12:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-12sep.b/t14q912a.m
Cal Date : 12-Sep-2007 14:21 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
155 1,3-Dichlorobenzene	+++++	0.86552	0.99684	1.19396	1.16994	1.11571	1.04648	1.06474	11.502	
156 1,4-Dichlorobenzene	+++++	0.98044	1.08354	1.38663	1.33434	1.26956	1.16956	1.20401	12.884	
157 alpha-Chlorotoluene	+++++	0.92745	0.93726	1.81787	1.93556	2.06764	1.40405	1.51497	33.206	<-
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
159 1,2-Dichlorobenzene	+++++	0.89370	1.09889	1.25593	1.17798	1.13256	1.05358	1.10211	11.197	
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
163 1,2,4-Trichlorobenzene	+++++	+++++	0.86498	0.84535	0.82024	0.82493	0.76728	0.82455	4.442	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-SEP-2007 09:48
End Cal Date : 12-SEP-2007 12:39
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-12sep.b/t14q912a.m
Cal Date : 12-Sep-2007 14:21 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	0.50802	0.62999	0.57740	0.58149		
	0.52834						0.56505	8.506
165 Naphthalene	+++++	+++++	2.65903	2.82258	2.92048	2.94117		
	1.53703						2.57606	22.959
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.45371	1.41886	1.39042	1.46303	1.49806		
	1.62199						1.47435	5.513
$ 107 Toluene-d8	+++++	0.87509	0.86889	0.89716	0.91153	0.91794		
	0.90200						0.89543	2.194
$ 138 Bromofluorobenzene	+++++	0.49620	0.49629	0.51658	0.49004	0.50146		
	0.50085						0.50024	1.799

Calibration History

Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Start Cal Date: 12-SEP-2007 09:48
End Cal Date : 12-SEP-2007 12:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
12-SEP-2007 09:48	AFCEElow	/chem/msd5.i/5-12sep.b/5091205.d
Cal Level: 2 , Cal Amount: 0.50000		
12-SEP-2007 10:16	AT04Low+ENSR	/chem/msd5.i/5-12sep.b/5091206.d
Cal Level: 3 , Cal Amount: 2.00000		
12-SEP-2007 10:43	AT04MDL+ENSR	/chem/msd5.i/5-12sep.b/5091207.d
Cal Level: 4 , Cal Amount: 25.00000		
12-SEP-2007 11:11	AT04MDL+ENSR	/chem/msd5.i/5-12sep.b/5091208.d
Cal Level: 5 , Cal Amount: 50.00000		
12-SEP-2007 11:39	AT04MDL+ENSR	/chem/msd5.i/5-12sep.b/5091209.d
Cal Level: 6 , Cal Amount: 100.00000		
12-SEP-2007 12:07	AT04MDL+ENSR	/chem/msd5.i/5-12sep.b/5091210.d
Cal Level: 7 , Cal Amount: 200.00000		
12-SEP-2007 12:39	AT04MDL+ENSR	/chem/msd5.i/5-12sep.b/5091211.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

| Ccal Level: 8 , Ccal Amount: 50.000 |

| 12-SEP-2007 11:39 | AT04MDL+ENSR | /chem/msd5.i/5-12sep.b/5091209a.d |

@ Air Toxics Ltd.

MSD-5

Logbook #: 1586

0600

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.35
75	30.0 – 60.0% of mass 95	46.53
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.57
173	Less than 2.0% of mass 174	(0.65)[1]
174	Greater than 50.0% of mass 95	57.70
175	5.0 – 9.0% of mass 174	(7.25)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.42)[1]
177	5.0 – 9.0% of mass 176	(6.19)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 9/12/07
BFB Injection Time: 0914
BFB File ID: 5091204
Tekmar Purge Flow: — LR 9/13/07
Vacuum: 3.22×10^{-6}

IS/S Std.#: 1487-385	Exp. Date: 12/10/07
BCM 3716675	
1,4-DFB 1436723	
CB-d5 1196769	

Verified CCV IS vs ICAL mid-point (- 40%D) LR (initials)

Verify 176/174 m/z Ratio: 1244160/1277440 x100 = 97.39

NOAH Cart #: NA **File #:** NA

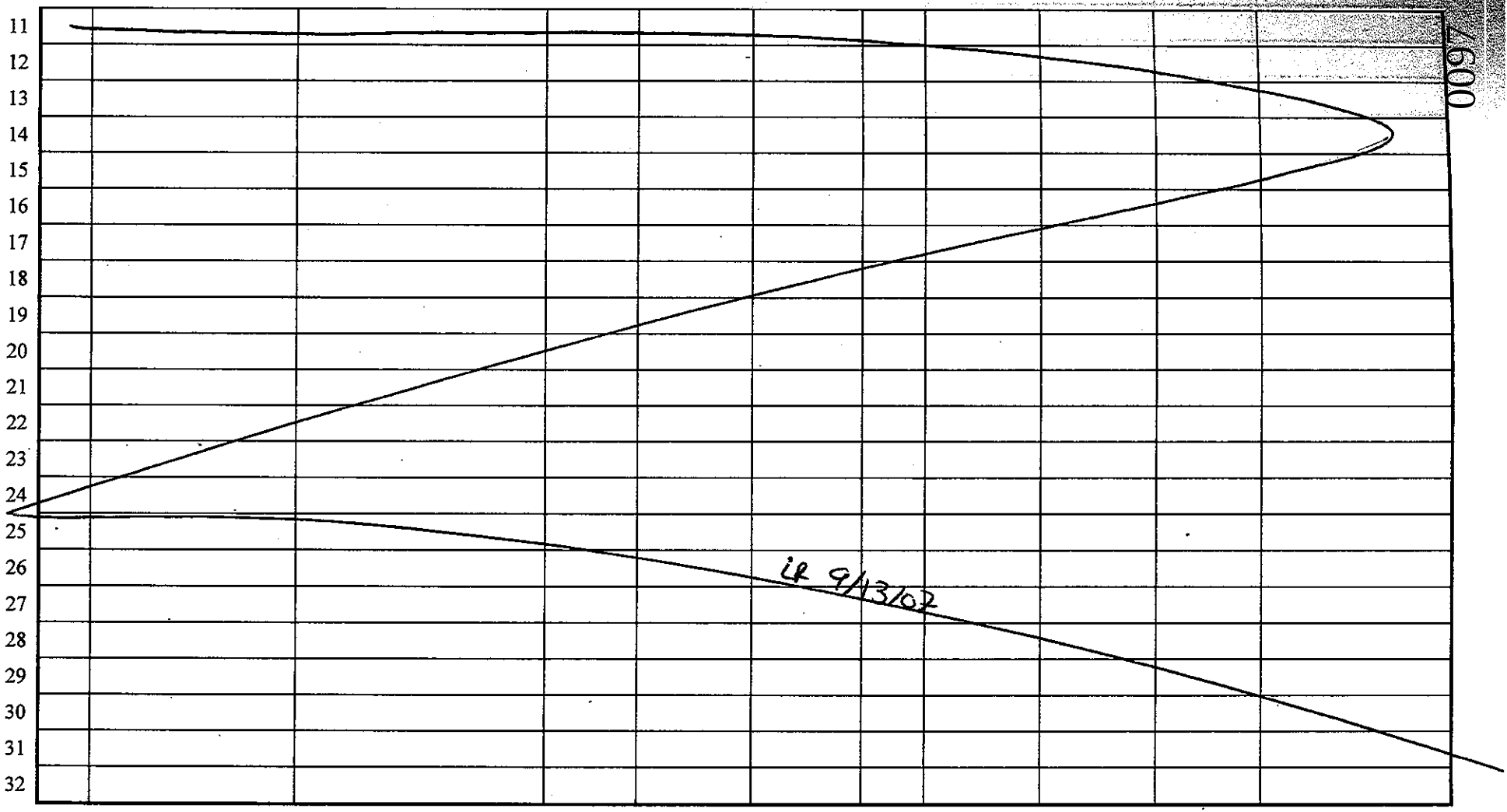
Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1309614)}{(1436723)} \times \frac{(25)}{(0.89543)} = 25.449$

Reported Result 25.449

File ID: 5091209	
Compound: TOL-d8	
Initials: LR	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5091204	BFB Tune Check	843-2980	50ng	2ml	1.00	9/12/07	0914	LR	
2	✓	05	ICAL Lvl 1	1443-294	0.5ppbv	0.5ml			0948	LR	
3	✓	06	2		0.5ppbv	0.5ml			1016	LR	
4	✓	07	3		2.0ppbv	2.0ml			1043	LR	t:14g 9/24
5	✓	08	4		25ppbv	25ml			1111	LR	
6	✓	09	5		50ppbv	50ml			1139	LR	
7	✓	10	6		100ppbv	100ml			1207	LR	
8	✓	11	7		200ppbv	200ml			1239	LR	
9	X	12	System Blank	6441	humid	↓			1359	LR	
10	✓	13	LCS-1 (200ppbv)	1443-295	50ppbv	50ml			1427	LR	ICAL



Comments: NIST Flow meter SN: US03G23372, exp 1/4/08 Real: 25 ml/min Nom: 22.5 ml/min

Signature

9/13/07
Date

Initial Calibration Narrative

A 7-point initial calibration was analyzed on MSD-5 on 9/12/07. As noted on the accompanying analytical run log, no points were re-analyzed.

The following compounds used 0.3ppbv as the lowest calibration concentration:
Chloroform, Benzene, Cumene and Styrene.

Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091213.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 12-SEP-2007 14:27
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1443-295
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 14:21 lrandolp Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	388775	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	295708			48.04- 108.04	76.06
8.059	8.059 (1.000)	49	867653			192.32- 252.32	223.18
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1511762	25.0000		80.00- 120.00	100.00
9.911	9.912 (1.000)	88	254968			0.00- 47.48	16.87
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1249017	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	725472			0.00- 30.00	58.08
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	582139	25.3904	25.390	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	332830			0.00- 30.00	57.17
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1340715	24.7605	24.760	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	142951			0.00- 30.00	10.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	891585			0.00- 30.00	66.50
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	605422	24.2245	24.224	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	998543			131.34- 191.34	164.93
16.575	16.575 (1.105)	176	580737			69.24- 129.24	95.92
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1501288	52.6129	52.613	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	1010978			0.00- 30.00	67.34
2.280	2.280 (0.283)	39	998381			0.00- 30.00	66.50
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2317642	52.7972	52.797	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	747360			0.00- 30.00	32.25
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2127514	49.6384	49.638	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	675276			1.77- 61.77	31.74
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1872259	50.4066	50.406	80.00- 120.00	100.00
2.612	2.612 (0.324)	52	562064			0.00- 30.00	30.02
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1717989	53.6641	53.664	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	528356			0.00- 30.00	30.75
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1570904	52.0534	52.053	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1604380			0.00- 30.00	102.13
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1137115	51.5282	51.528	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	1067333			65.53- 125.53	93.86
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	877285	51.2385	51.238	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	249281			0.00- 30.00	28.42
3.414	3.414 (0.424)	66	244679			0.00- 30.00	27.89
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2504458	50.9537	50.954	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1643554			34.64- 94.64	65.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.078 (0.506)	45	694060	53.7394	53.739	80.00- 120.00	100.00
4.077	4.078 (0.506)	43	115041			0.00- 30.00	16.58
4.077	4.078 (0.506)	46	288850			0.00- 30.00	41.62
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1824834	57.1133	57.113	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1156409			32.78- 92.78	63.37
4.520	4.520 (0.561)	101	2468590			105.88- 165.88	135.28
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2420206	58.4785	58.478	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1382279			25.13- 85.13	57.11
4.575	4.575 (0.568)	98	871682			6.97- 66.97	36.02
32 Acetone					CAS #: 67-64-1		
4.713	4.714 (0.585)	58	850745	52.8692	52.869	80.00- 120.00	100.00
4.713	4.714 (0.585)	43	2575703			0.00- 30.00	302.76
36 2-Propanol					CAS #: 67-63-0		
4.935	4.907 (0.612)	45	3142563	51.4765	51.476	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	632757			0.00- 30.00	20.14
4.935	4.907 (0.612)	59	109641			0.00- 30.00	3.49
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3690463	51.6430	51.643	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.184 (0.643)	76	623231	52.9508	52.951	80.00- 120.00	100.00
5.183	5.184 (0.643)	41	2524439			0.00- 30.00	405.06
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	2033488	54.8084	54.808	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	1150231			24.30- 84.30	56.56
5.432	5.432 (0.674)	51	623680			0.00- 30.00	30.67
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	964029	43.3188	43.319	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	319893			3.60- 63.60	33.18
5.764	5.764 (0.715)	41	330713			0.00- 30.00	34.31
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.820 (0.722)	96	1354967	49.7620	49.762	80.00- 120.00	100.00
5.819	5.820 (0.722)	61	2165041			130.11- 190.11	159.79
5.819	5.820 (0.722)	98	865301			0.00- 30.00	63.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2895886	53.9988	53.999	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	2034506			0.00- 30.00	70.26
6.179	6.151 (0.767)	86	389810			0.00- 30.00	13.46
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2525324	54.2565	54.256	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	743648			0.62- 60.62	29.45
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	567267	52.7337	52.734	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	3438953			582.09- 642.09	606.23
7.672	7.672 (0.952)	57	246633			0.00- 30.00	43.48
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1834076	52.3323	52.332	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1217093			36.07- 96.07	66.36
7.617	7.617 (0.945)	98	786759			12.20- 72.20	42.90
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2082096	47.3726	47.373	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	488132			0.00- 53.51	23.44
8.031	8.031 (0.997)	72	541829			0.00- 30.00	26.02
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2050650	51.0883	51.088	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1311799			34.40- 94.40	63.97
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1980364	53.4864	53.486	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1286733			34.17- 94.17	64.97
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.419 (1.045)	84	1617400	53.6569	53.657	80.00- 120.00	100.00
8.418	8.419 (1.045)	56	2649075			132.70- 192.70	163.79
8.418	8.419 (1.045)	41	1489770			62.58- 122.58	92.11
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.677 (0.825)	86	311225	55.3690	55.369	80.00- 120.00	100.00
6.649	6.677 (0.825)	43	4252249			0.00- 30.00	1366.29
6.649	6.677 (0.825)	42	317461			0.00- 30.00	102.00
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1645923	52.2878	52.288	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1730172			74.66- 134.66	105.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7773513	54.6606	54.660	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2536737			0.00- 30.00	32.63
9.110	9.110 (1.130)	41	2030508			0.00- 30.00	26.12
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3361467	50.1523	50.152	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	758751			0.00- 30.00	22.57
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1571664	52.3747	52.375	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	484833			0.00- 30.00	30.85
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	389316	50.4088	50.409	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	3244977			0.00- 30.00	833.51
9.469	9.497 (0.955)	71	1177970			0.00- 30.00	302.57
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1350474	53.4039	53.404	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1267975			66.49- 126.49	93.89
10.326	10.326 (1.042)	97	857058			33.34- 93.34	63.46
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1261530	49.6342	49.634	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	918800			39.46- 99.46	72.83
10.852	10.852 (1.095)	41	918107			42.31- 102.31	72.78
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	723217	38.1414	38.141	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	697441			67.83- 127.83	96.44
11.073	11.073 (1.117)	57	215893			0.00- 30.00	29.85
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1919967	54.7902	54.790	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1188039			33.91- 93.91	61.88
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1405229	54.8966	54.897	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	450906			1.87- 61.87	32.09
12.317	12.317 (1.243)	39	1077706			45.66- 105.66	76.69
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.594 (1.271)	58	1195115	52.6960	52.696	80.00- 120.00	100.00
12.593	12.594 (1.271)	43	3434936			0.00- 30.00	287.41
12.593	12.594 (1.271)	85	387174			0.00- 30.00	32.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3458332	55.7231	55.723	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	2063152			30.30- 90.30	59.66
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1439409	55.3447	55.345	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	448932			1.10- 61.10	31.19
13.368	13.368 (0.891)	39	1030940			43.72- 103.72	71.62
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1134242	51.7263	51.726	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	707791			31.14- 91.14	62.40
13.644	13.644 (0.910)	83	933100			54.39- 114.39	82.27
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.700 (0.913)	166	1294585	50.6015	50.602	80.00- 120.00	100.00
13.699	13.700 (0.913)	129	1055362			51.10- 111.10	81.52
13.699	13.700 (0.913)	131	1036704			46.73- 106.73	80.08
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1642249	46.0682	46.068	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	3307211			176.43- 236.43	201.38
14.031	14.004 (0.935)	100	246899			0.00- 30.00	15.03
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1627309	53.3330	53.333	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1261394			0.00- 30.00	77.51
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1668445	52.0449	52.045	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1559706			63.31- 123.31	93.48
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	2563602	51.8302	51.830	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	810829			1.73- 61.73	31.63
15.027	15.054 (1.002)	77	1613057			33.09- 93.09	62.92
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1372748	49.0767	49.077	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4655350			0.00- 30.00	339.13
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1760006	50.9265	50.926	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3786849			0.00- 30.00	215.16
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1629006	54.9254	54.925	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3697127			193.91- 253.91	226.96
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	2635250	54.1963	54.196	80.00- 120.00	100.00
15.911	15.912 (1.061)	78	1349863			23.21- 83.21	51.22
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1425341	49.4084	49.408	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	754287			19.49- 79.49	52.92
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2386782	52.4972	52.497	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1519989			36.45- 96.45	63.68
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5000332	53.5490	53.549	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1475885			0.00- 59.05	29.52
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4534714	53.1078	53.108	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2143530			0.00- 30.00	47.27
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3925661	52.4349	52.435	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1848442			16.04- 76.04	47.09
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2629881	49.4384	49.438	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1664040			0.00- 30.00	63.27
17.764	17.764 (1.184)	111	1062451			0.00- 30.00	40.40
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3051004	50.7206	50.720	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1890704			0.00- 30.00	61.97
17.847	17.847 (1.190)	111	1333350			0.00- 30.00	43.70
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4785295	63.2231	63.223	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	889194			0.00- 30.00	18.58
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2686905	48.7979	48.798	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1736198			33.11- 93.11	64.62
18.206	18.206 (1.214)	111	1114703			10.71- 70.71	41.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1830061	44.4241	44.424	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1741721			65.19- 125.19	95.17
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1328522	47.0603	47.060	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	835291			31.53- 91.53	62.87
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6032373	53.0221	53.022	80.00- 120.00	100.00
16.851	16.824 (1.123)	120	1336037			0.00- 30.00	22.15
16.824	16.824 (1.122)	105	200288			0.00- 30.00	3.32
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5137727	55.8053	55.805	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1336684			0.00- 30.00	26.02
16.326	16.326 (1.088)	51	751974			0.00- 30.00	14.64
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6202813	48.1953	48.195	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	779331			0.00- 30.00	12.56
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2575217	49.5403	49.540	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1637595			0.00- 30.00	63.59
3.414	3.414 (0.424)	72	155063			0.00- 30.00	6.02
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	452620	51.6296	51.630	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	3312074			0.00- 30.00	731.76
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.548 (1.064)	83	1975560	54.1721	54.172	80.00- 120.00	100.00
10.547	10.548 (1.064)	98	967318			0.00- 30.00	48.96
10.547	10.548 (1.064)	55	2271323			0.00- 30.00	114.97

Report Date: 12-Sep-2007 14:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091213.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	388775	3.21
92 1,4-Difluorobenze	1436723	862034	2011412	1511762	5.22
125 Chlorobenzene-d5	1196769	718061	1675477	1249017	4.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Sep-2007 14:36

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-12sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	52.797	105.59	70-130
9 Freon 114	50.000	49.638	99.28	70-130
10 Chloromethane	50.000	50.406	100.81	70-130
13 Vinyl Chloride	50.000	53.664	107.33	70-130
12 1,3-Butadiene	50.000	52.053	104.11	60-140
15 Bromomethane	50.000	51.528	103.06	70-130
19 Chloroethane	50.000	51.238	102.48	70-130
20 Trichlorofluoromet	50.000	50.954	101.91	70-130
26 Ethanol	50.000	53.739	107.48	60-140
30 Freon 113	50.000	57.113	114.23	70-130
31 1,1-Dichloroethene	50.000	58.478	116.96	70-130
35 Carbon Disulfide	50.000	51.643	103.29	60-140
32 Acetone	50.000	52.869	105.74	60-140
36 2-Propanol	50.000	51.476	102.95	60-140
38 3-Chloropropene	50.000	52.951	105.90	60-140
43 Methylene Chloride	50.000	54.808	109.62	70-130
46 MTBE	50.000	43.319	86.64	60-140
47 trans-1,2-Dichloro	50.000	49.762	99.52	60-140
51 Hexane	50.000	53.999	108.00	60-140
55 1,1-Dichloroethane	50.000	54.256	108.51	70-130
66 cis-1,2-Dichloroet	50.000	52.332	104.66	70-130
67 2-Butanone	50.000	52.734	105.47	60-140
70 Tetrahydrofuran	50.000	47.373	94.75	60-140
72 Chloroform	50.000	51.088	102.18	70-130
74 Cyclohexane	50.000	53.657	107.31	60-140
75 1,1,1-Trichloroeth	50.000	53.486	106.97	70-130
56 Vinyl Acetate	50.000	55.369	110.74	60-140
77 Carbon Tetrachlori	50.000	52.288	104.58	70-130
80 2,2,4-Trimethylpen	50.000	54.660	109.32	60-140
81 Benzene	50.000	50.152	100.30	70-130
85 1,2-Dichloroethane	50.000	52.375	104.75	70-130
90 Heptane	50.000	50.409	100.82	60-140
93 Trichloroethene	50.000	53.404	106.81	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	49.634	99.27	70-130
99 1,4-Dioxane	50.000	38.141	76.28	60-140
100 Bromodichlorometha	50.000	54.790	109.58	60-140
103 cis-1,3-Dichloropr	50.000	54.897	109.79	70-130
106 4-Methyl-2-pentano	50.000	52.696	105.39	60-140
108 Toluene	50.000	55.723	111.45	70-130
113 trans-1,3-Dichloro	50.000	55.345	110.69	70-130
114 1,1,2-Trichloroeth	50.000	51.726	103.45	70-130
116 Tetrachloroethene	50.000	50.602	101.20	70-130
119 2-Hexanone	50.000	46.068	92.14	60-140
120 Dibromochlorometha	50.000	53.333	106.67	60-140
122 1,2-Dibromoethane	50.000	52.045	104.09	70-130
126 Chlorobenzene	50.000	51.830	103.66	70-130
128 Ethyl Benzene	50.000	49.077	98.15	70-130
130 m,p-Xylene	50.000	50.926	101.85	70-130
132 o-Xylene	50.000	54.925	109.85	70-130
133 Styrene	50.000	54.196	108.39	70-130
134 Bromoform	50.000	49.408	98.82	60-140
136 Cumene	50.000	55.805	111.61	60-140
141 1,1,2,2-Tetrachlor	50.000	52.497	104.99	70-130
142 Propylbenzene	50.000	53.022	106.04	60-140
144 4-Ethyltoluene	50.000	53.549	107.10	60-140
147 1,3,5-Trimethylben	50.000	53.108	106.22	70-130
152 1,2,4-Trimethylben	50.000	52.435	104.87	70-130
155 1,3-Dichlorobenzen	50.000	49.438	98.88	70-130
156 1,4-Dichlorobenzen	50.000	50.720	101.44	70-130
157 alpha-Chlorotoluen	50.000	63.223	126.45	70-130
159 1,2-Dichlorobenzen	50.000	48.798	97.60	70-130
163 1,2,4-Trichloroben	50.000	44.424	88.85	70-130
164 Hexachlorobutadien	50.000	47.060	94.12	70-130
6 Propylene	50.000	52.613	105.23	70-130
165 Naphthalene	50.000	48.195	96.39	60-140
11 Butane	50.000	51.630	103.26	70-130
17 Isopentane	50.000	49.540	99.08	70-130
94 Methyl Cyclohexane	50.000	54.172	108.34	70-130

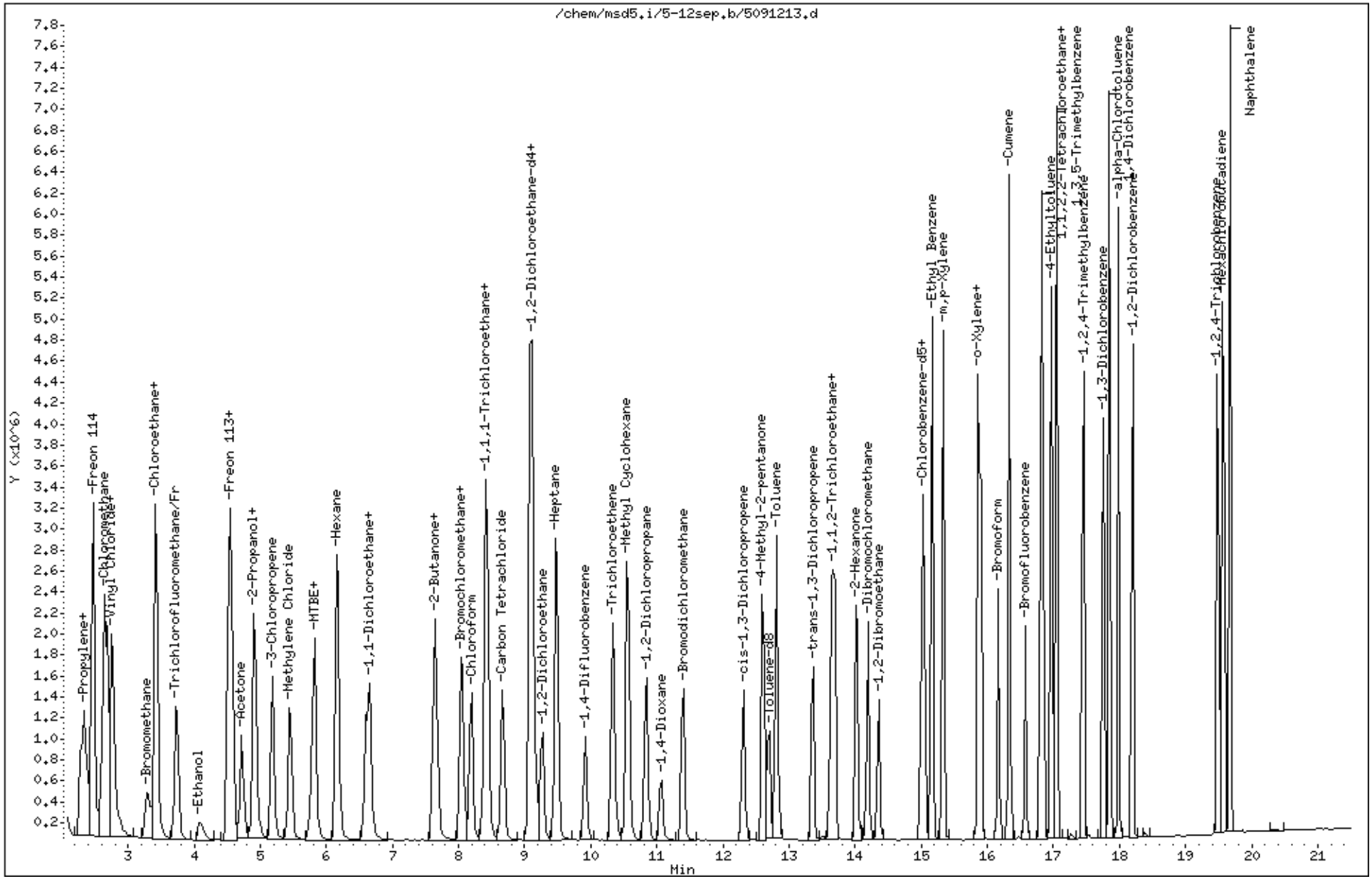
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.390	101.56	70-130
$ 107 Toluene-d8	25.000	24.760	99.04	70-130
$ 138 Bromofluorobenzene	25.000	24.224	96.90	70-130

0111

Data File: /chem/msd5.i/5-12sep.b/5091213.d
Date : 12-SEP-2007 14:27
Client ID: LCS-1
Sample Info: 50mL #1443-295

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091205.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 12-SEP-2007 09:48
Operator : ct Inst ID: msd5.i
Smp Info : 0.3ml #1443-294
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 12:22 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 09:48 Cal File: 5091205.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	455179	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	352098			48.04- 108.04	77.35
8.059	8.059 (1.000)	49	1010052			192.32- 252.32	221.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1745713	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	288264			0.00- 47.48	16.51
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1400116	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	820650			0.00- 30.00	58.61
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	654105	25.0000		70.00- 130.00	100.00(a)
9.137	9.137 (1.134)	67	313003			0.00- 30.00	47.85
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1484101	25.0000		70.00- 130.00	100.00(a)
12.704	12.704 (1.278)	70	146620			0.00- 30.00	9.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	963528			0.00- 30.00	64.92
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	649478	25.0000		70.00- 130.00	100.00(a)
16.575	16.575 (1.105)	95	1055716			131.34- 191.34	162.55
16.575	16.575 (1.105)	176	637600			69.24- 129.24	98.17
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	17907	0.30000	0.3000	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	12823			34.40- 94.40	71.61
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	31941	0.30000	0.3000	70.00- 130.00	100.00
9.110	9.110 (0.917)	77	8685			0.00- 30.00	27.19
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	18156	0.30000	0.3000	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	13378			23.21- 83.21	73.68
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	37098	0.30000	0.3000	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	10574			0.00- 30.00	28.50
16.326	16.326 (1.088)	51	10463			0.00- 30.00	28.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Report Date: 12-Sep-2007 12:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091205.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	455179	20.84
92 1,4-Difluorobenze	1436723	862034	2011412	1745713	21.51
125 Chlorobenzene-d5	1196769	718061	1675477	1400116	16.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

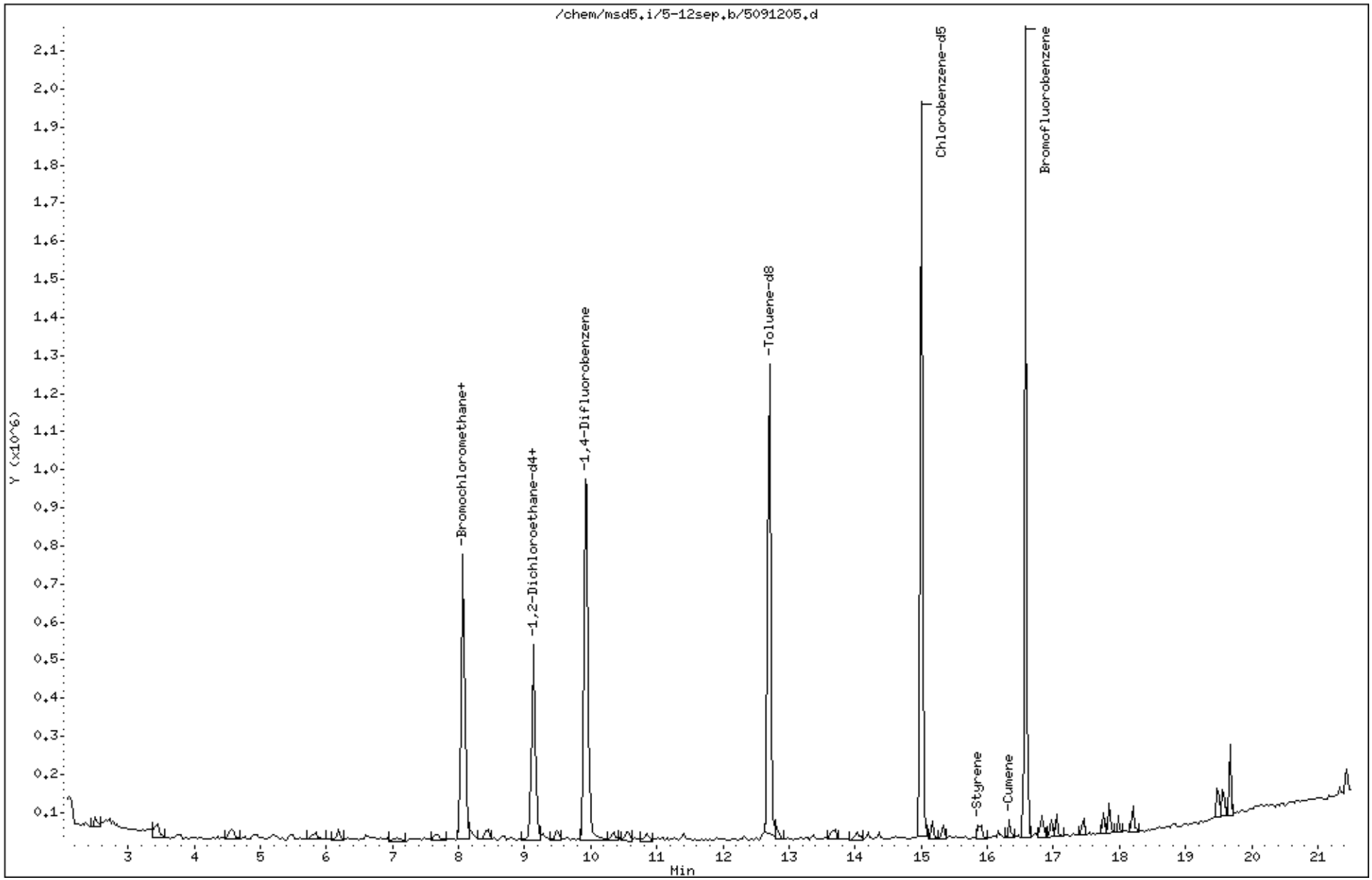
0115

Data File: /chem/msd5.i/5-12sep.b/5091205.d
Date : 12-SEP-2007 09:48
Client ID: Level 1
Sample Info: 0.3ml #1443-294

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091206.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 12-SEP-2007 10:16
Operator : ct Inst ID: msd5.i
Smp Info : 0.5mL #1443-294
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 12:22 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 10:16 Cal File: 5091206.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	349466	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	285762			48.04- 108.04		81.77
8.059	8.059 (1.000)	49	820002			192.32- 252.32		234.64
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1400362	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	228208			0.00- 47.48		16.30
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1130307	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	673269			0.00- 30.00		59.57
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	508023	25.0000	25.000	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	257704			0.00- 30.00		50.73
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1225446	25.0000	25.000	70.00- 130.00		100.00
12.704	12.704 (1.282)	70	129297			0.00- 30.00		10.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	796444			0.00- 30.00	64.99
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	560856	25.0000	25.000	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	906287			131.34- 191.34	161.59
16.575	16.575 (1.105)	176	531277			69.24- 129.24	94.73
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	14109	0.50000	0.5000	70.00- 130.00	100.00
2.391	2.391 (0.297)	87	8041			0.00- 30.00	56.99
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	18260	0.50000	0.5000	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	6398			1.77- 61.77	35.04
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.348)	62	10765	0.50000	0.5000	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	6307			0.00- 30.00	58.59
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	10648	0.50000	0.5000	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	12002			0.00- 30.00	112.72
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	8178	0.50000	0.5000	70.00- 130.00	100.00
3.303	3.303 (0.410)	96	11964			65.53- 125.53	146.29
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	6657	0.50000	0.5000	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	1375			0.00- 30.00	20.65
3.441	3.441 (0.427)	66	3168			0.00- 30.00	47.59
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	20150	0.50000	0.5000	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	10489			34.64- 94.64	52.05
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	13857	0.50000	0.5000	70.00- 130.00	100.00
4.547	4.547 (0.564)	153	7263			32.78- 92.78	52.41
4.520	4.520 (0.561)	101	20020			105.88- 165.88	144.48
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	16059	0.50000	0.5000	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	11020			25.13- 85.13	68.62
4.575	4.575 (0.568)	98	6400			6.97- 66.97	39.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	28418	0.50000	0.5000	70.00- 130.00	100.00
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	17404	0.50000	0.5000	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	8177			24.30- 84.30	46.98
5.432	5.432 (0.674)	51	8381			0.00- 30.00	48.16
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	14647	0.50000	0.5000	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	7085			3.60- 63.60	48.37
5.764	5.764 (0.715)	41	9162			0.00- 30.00	62.55
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	13373	0.50000	0.5000	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	18577			130.11- 190.11	138.91
5.819	5.819 (0.722)	98	7939			0.00- 30.00	59.37
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	20694	0.50000	0.5000	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	15474			0.00- 30.00	74.78
6.151	6.151 (0.763)	86	3153			0.00- 30.00	15.24
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	20136	0.50000	0.5000	70.00- 130.00	100.00
6.621	6.621 (0.822)	65	5610			0.62- 60.62	27.86
67 2-Butanone					CAS #: 78-93-3		
7.699	7.699 (0.955)	72	4037	0.50000	0.5000	70.00- 130.00	100.00
7.699	7.699 (0.955)	43	24940			582.09- 642.09	617.79
7.672	7.672 (0.952)	57	1730			0.00- 30.00	42.85
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	14513	0.50000	0.5000	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	8644			36.07- 96.07	59.56
7.617	7.617 (0.945)	98	7728			12.20- 72.20	53.25
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	24556	0.50000	0.5000	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	5449			0.00- 53.51	22.19
8.059	8.059 (1.000)	72	6090			0.00- 30.00	24.80
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	14585	0.50000	0.3889	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	8741			34.40- 94.40	59.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	14315	0.50000	0.5000	70.00- 130.00	100.00
8.418	8.418 (1.045)	99	8178			34.17- 94.17	57.13
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	11875	0.50000	0.5000	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	25563			132.70- 192.70	215.27
8.391	8.391 (1.041)	41	16884			62.58- 122.58	142.18
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	12357	0.50000	0.5000	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	12477			74.66- 134.66	100.97
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	49770	0.50000	0.5000	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	19749			0.00- 30.00	39.68
9.110	9.110 (1.130)	41	18715			0.00- 30.00	37.60
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	25931	0.50000	0.3778	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	6066			0.00- 30.00	23.39
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	11386	0.50000	0.5000	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	3466			0.00- 30.00	30.44
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	3472	0.50000	0.5000	70.00- 130.00	100.00
9.497	9.497 (0.958)	43	22331			0.00- 30.00	643.17
9.469	9.469 (0.955)	71	6431			0.00- 30.00	185.22
93 Trichloroethene					CAS #: 79-01-6		
10.354	10.354 (1.045)	95	10109	0.50000	0.5000	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	7777			66.49- 126.49	76.93
10.326	10.326 (1.042)	97	8217			33.34- 93.34	81.28
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	12446	0.50000	0.5000	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	7660			39.46- 99.46	61.55
10.852	10.852 (1.095)	41	8141			42.31- 102.31	65.41
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	11384	0.50000	0.5000	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	9484			33.91- 93.91	83.31
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	9414	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.317	12.317 (1.243)	77	2234			1.87- 61.87	23.73
12.317	12.317 (1.243)	39	8888			45.66- 105.66	94.41
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	7369	0.50000	0.5000	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	23217			0.00- 30.00	315.06
12.593	12.593 (1.271)	85	3543			0.00- 30.00	48.08
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	22874	0.50000	0.5000	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	17792			30.30- 90.30	77.78
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	8267	0.50000	0.5000	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	4012			1.10- 61.10	48.53
13.368	13.368 (0.891)	39	8610			43.72- 103.72	104.15
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	8746	0.50000	0.5000	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	4724			31.14- 91.14	54.01
13.644	13.644 (0.910)	83	6858			54.39- 114.39	78.41
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	10904	0.50000	0.5000	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	9630			51.10- 111.10	88.32
13.699	13.699 (0.913)	131	9378			46.73- 106.73	86.01
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	9310	0.50000	0.5000	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	7574			0.00- 30.00	81.35
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	11626	0.50000	0.5000	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	10790			63.31- 123.31	92.81
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	18386	0.50000	0.5000	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	7624			1.73- 61.73	41.47
14.999	14.999 (1.000)	77	22813			33.09- 93.09	124.08
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	12449	0.50000	0.5000	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	33194			0.00- 30.00	266.64
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	14410	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	26467			0.00- 30.00	183.67
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	7921	0.50000	0.5000	70.00- 130.00	100.00
15.856	15.856 (1.057)	91	25837			193.91- 253.91	326.18
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	15591	0.50000	0.3896	70.00- 130.00	100.00(a)
15.911	15.911 (1.061)	78	8943			23.21- 83.21	57.36
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	10053	0.50000	0.5000	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	5312			19.49- 79.49	52.84
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	15490	0.50000	0.5000	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	12764			36.45- 96.45	82.40
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	30475	0.50000	0.5000	70.00- 130.00	100.00
16.990	16.990 (1.133)	120	8998			0.00- 59.05	29.53
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	32168	0.50000	0.5000	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	14716			0.00- 30.00	45.75
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	22529	0.50000	0.5000	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	10889			16.04- 76.04	48.33
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	19566	0.50000	0.5000	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	11946			0.00- 30.00	61.05
17.764	17.764 (1.184)	111	9069			0.00- 30.00	46.35
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	22164	0.50000	0.5000	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	15803			0.00- 30.00	71.30
17.847	17.847 (1.190)	111	11344			0.00- 30.00	51.18
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	20966	0.50000	0.5000	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	6239			0.00- 30.00	29.76
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	20203	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	15058			33.11- 93.11	74.53
18.206	18.206 (1.214)	111	11918			10.71- 70.71	58.99
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	43267	0.50000	0.5000	70.00- 130.00	100.00
16.851	16.851 (1.123)	120	10849			0.00- 30.00	25.07
16.824	16.824 (1.122)	105	2858			0.00- 30.00	6.61
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	27575	0.50000	0.3558	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	11196			0.00- 30.00	40.60
16.326	16.326 (1.088)	51	8193			0.00- 30.00	29.71
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	14723	0.50000	0.5000	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	10581			0.00- 30.00	71.87
10.547	10.547 (1.064)	55	13481			0.00- 30.00	91.56

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Report Date: 12-Sep-2007 12:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091206.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	349466	-7.22
92 1,4-Difluorobenze	1436723	862034	2011412	1400362	-2.53
125 Chlorobenzene-d5	1196769	718061	1675477	1130307	-5.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

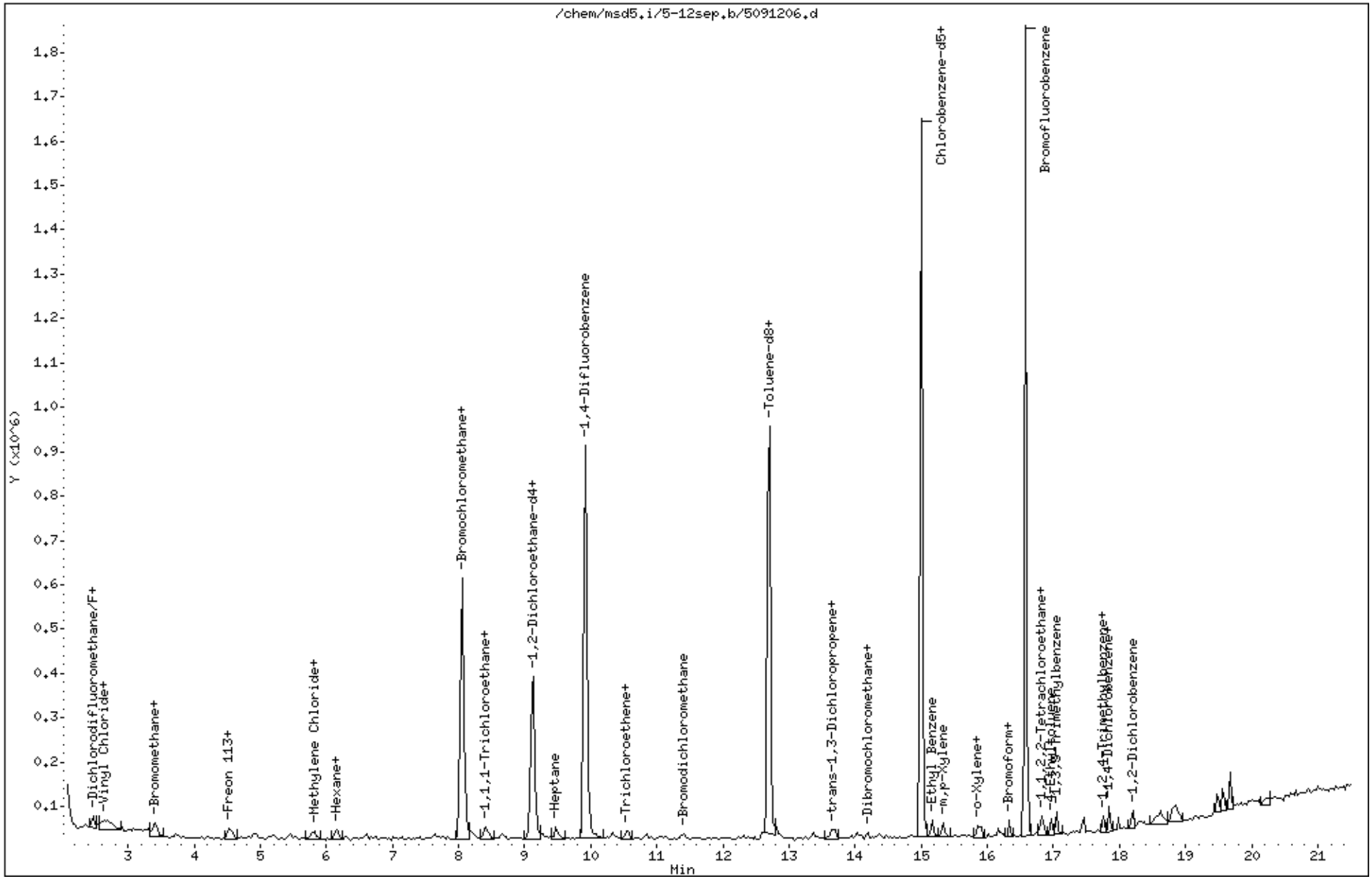
0124

Data File: /chem/msd5.i/5-12sep.b/5091206.d
Date : 12-SEP-2007 10:16
Client ID: Level 2
Sample Info: 0.5mL #1443-294

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091207.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 12-SEP-2007 10:43
Operator : ct Inst ID: msd5.i
Smp Info : 2.0mL #1443-294
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 12:22 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 10:43 Cal File: 5091207.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	358650	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	281648			48.04- 108.04	78.53
8.059	8.059 (1.000)	49	795643			192.32- 252.32	221.84
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1384306	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	223024			0.00- 47.48	16.11
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1127008	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	664668			0.00- 30.00	58.98
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	508873	25.0000	24.697	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	258326			0.00- 30.00	50.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1202808	25.0000	24.911	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	124760			0.00- 30.00	10.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	747377			0.00- 30.00	62.14
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	559328	25.0000	25.002	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	882355			131.34- 191.34	157.75
16.575	16.575 (1.105)	176	526385			69.24- 129.24	94.11
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	45466	2.00000	2.000	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	28048			0.00- 30.00	61.69
2.280	2.280 (0.283)	39	32589			0.00- 30.00	71.68
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	72814	2.00000	2.228	70.00- 130.00	100.00
2.363	2.363 (0.293)	87	21329			0.00- 30.00	29.29
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	71119	2.00000	1.947	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	23843			1.77- 61.77	33.53
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	57852	2.00000	2.000	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	22217			0.00- 30.00	38.40
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	49686	2.00000	2.117	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	15306			0.00- 30.00	30.81
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	46316	2.00000	2.058	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	57195			0.00- 30.00	123.49
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	31796	2.00000	1.946	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	34228			65.53- 125.53	107.65
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	25485	2.00000	1.930	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	5677			0.00- 30.00	22.28
3.414	3.414 (0.424)	66	9511			0.00- 30.00	37.32
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	75621	2.00000	1.910	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	50780			34.64- 94.64	67.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	20042	2.00000	2.000	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	4354			0.00- 30.00	21.72
4.105	4.105 (0.509)	46	5166			0.00- 30.00	25.78
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	48678	2.00000	1.844	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	32182			32.78- 92.78	66.11
4.520	4.520 (0.561)	101	59856			105.88- 165.88	122.96
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	64037	2.00000	1.971	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	36635			25.13- 85.13	57.21
4.575	4.575 (0.568)	98	23681			6.97- 66.97	36.98
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	21950	2.00000	2.000	70.00- 130.00	100.00
4.741	4.741 (0.588)	43	69565			0.00- 30.00	316.92
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	79786	2.00000	2.000	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	22622			0.00- 30.00	28.35
4.962	4.962 (0.616)	59	2554			0.00- 30.00	3.20
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	110423	2.00000	1.945	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	17529	2.00000	2.000	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	68436			0.00- 30.00	390.42
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	55339	2.00000	1.746	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	29744			24.30- 84.30	53.75
5.460	5.460 (0.677)	51	17942			0.00- 30.00	32.42
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	48122	2.00000	1.778	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	18058			3.60- 63.60	37.53
5.764	5.764 (0.715)	41	19503			0.00- 30.00	40.53
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	39875	2.00000	1.683	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	63078			130.11- 190.11	158.19
5.819	5.819 (0.722)	98	25651			0.00- 30.00	64.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	78154	2.00000	1.917	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	60210			0.00- 30.00	77.04
6.179	6.179 (0.767)	86	10620			0.00- 30.00	13.59
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	68816	2.00000	1.817	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	22738			0.62- 60.62	33.04
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	15205	2.00000	1.914	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	80741			582.09- 642.09	531.02
7.672	7.672 (0.952)	57	7085			0.00- 30.00	46.60
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	55089	2.00000	1.922	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	35711			36.07- 96.07	64.82
7.617	7.617 (0.945)	98	24531			12.20- 72.20	44.53
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	63722	2.00000	1.549	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	16070			0.00- 53.51	25.22
8.059	8.059 (1.000)	72	20180			0.00- 30.00	31.67
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	62590	2.00000	1.734	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	37974			34.40- 94.40	60.67
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	55077	2.00000	1.935	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	38135			34.17- 94.17	69.24
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	42498	2.00000	1.863	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	70872			132.70- 192.70	166.77
8.391	8.391 (1.041)	41	37493			62.58- 122.58	88.22
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	6390	2.00000	2.000	70.00- 130.00	100.00
6.676	6.676 (0.828)	43	65657			0.00- 30.00	1027.50
6.676	6.676 (0.828)	42	6609			0.00- 30.00	103.43
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	47074	2.00000	1.925	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	45665			74.66- 134.66	97.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	207885	2.00000	2.017	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	79049			0.00- 30.00	38.03
9.082	9.082 (1.127)	41	56576			0.00- 30.00	27.22
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	93356	2.00000	1.536	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	24767			0.00- 30.00	26.53
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	48424	2.00000	2.073	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	15373			0.00- 30.00	31.75
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	12344	2.00000	1.894	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	87720			0.00- 30.00	710.63
9.497	9.497 (0.958)	71	34963			0.00- 30.00	283.24
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	37800	2.00000	1.944	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	35580			66.49- 126.49	94.13
10.326	10.326 (1.042)	97	28305			33.34- 93.34	74.88
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	38659	2.00000	1.760	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	24481			39.46- 99.46	63.33
10.852	10.852 (1.095)	41	30515			42.31- 102.31	78.93
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	31792	2.00000	2.000	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	24587			67.83- 127.83	77.34
11.073	11.073 (1.117)	57	8938			0.00- 30.00	28.11
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	53426	2.00000	2.171	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	35374			33.91- 93.91	66.21
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	31015	2.00000	1.818	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	13517			1.87- 61.87	43.58
12.317	12.317 (1.243)	39	27969			45.66- 105.66	90.18
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	28428	2.00000	1.975	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	109477			0.00- 30.00	385.10
12.621	12.621 (1.273)	85	11369			0.00- 30.00	39.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	94541	2.00000	2.044	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	55704			30.30- 90.30	58.92
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	30993	2.00000	1.938	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	10272			1.10- 61.10	33.14
13.368	13.368 (0.891)	39	22348			43.72- 103.72	72.11
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	34550	2.00000	1.990	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	22655			31.14- 91.14	65.57
13.644	13.644 (0.910)	83	29253			54.39- 114.39	84.67
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	39925	2.00000	1.914	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	31139			51.10- 111.10	77.99
13.699	13.699 (0.913)	131	28269			46.73- 106.73	70.81
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	43704	2.00000	2.000	70.00- 130.00	100.00
14.031	14.031 (0.935)	43	98386			176.43- 236.43	225.12
14.031	14.031 (0.935)	100	9633			0.00- 30.00	22.04
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	41055	2.00000	2.100	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	33050			0.00- 30.00	80.50
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	44085	2.00000	1.950	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	43823			63.31- 123.31	99.41
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	77885	2.00000	2.060	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	25936			1.73- 61.73	33.30
15.027	15.027 (1.002)	77	55483			33.09- 93.09	71.24
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	41663	2.00000	1.825	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	139469			0.00- 30.00	334.76
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	52001	2.00000	1.900	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	96825			0.00- 30.00	186.20
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	45021	2.00000	2.350	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	101262			193.91- 253.91	224.92
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	59317	2.00000	1.626	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	35090			23.21- 83.21	59.16
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	39412	2.00000	1.983	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	18686			19.49- 79.49	47.41
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	73459	2.00000	2.173	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	44751			36.45- 96.45	60.92
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	139004	2.00000	2.134	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	40219			0.00- 59.05	28.93
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	121372	2.00000	1.944	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	58705			0.00- 30.00	48.37
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	106112	2.00000	2.166	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	49869			16.04- 76.04	47.00
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	89876	2.00000	2.141	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	53779			0.00- 30.00	59.84
17.764	17.764 (1.184)	111	32708			0.00- 30.00	36.39
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	97693	2.00000	2.100	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	63362			0.00- 30.00	64.86
17.847	17.847 (1.190)	111	40836			0.00- 30.00	41.80
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	84504	2.00000	2.010	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	18214			0.00- 30.00	21.55
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	99077	2.00000	2.206	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	60530			33.11- 93.11	61.09
18.206	18.206 (1.214)	111	38137			10.71- 70.71	38.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	77987	2.00000	2.000	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	72115			65.19- 125.19	92.47
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	45803	2.00000	2.000	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	34913			31.53- 91.53	76.22
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	168069	2.00000	1.974	70.00- 130.00	100.00
16.851	16.851 (1.123)	120	36733			0.00- 30.00	21.86
16.824	16.824 (1.122)	105	8323			0.00- 30.00	4.95
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	129038	2.00000	1.767	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	34659			0.00- 30.00	26.86
16.326	16.326 (1.088)	51	24661			0.00- 30.00	19.11
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	239740	2.00000	2.000	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	30709			0.00- 30.00	12.81
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	79625	2.00000	2.000	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	46379			0.00- 30.00	58.25
3.414	3.414 (0.424)	72	5560			0.00- 30.00	6.98
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	15181	2.00000	2.000	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	102071			0.00- 30.00	672.36
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	50022	2.00000	1.848	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	24720			0.00- 30.00	49.42
10.547	10.547 (1.064)	55	59886			0.00- 30.00	119.72

Report Date: 12-Sep-2007 12:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091207.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	358650	-4.79
92 1,4-Difluorobenze	1436723	862034	2011412	1384306	-3.65
125 Chlorobenzene-d5	1196769	718061	1675477	1127008	-5.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

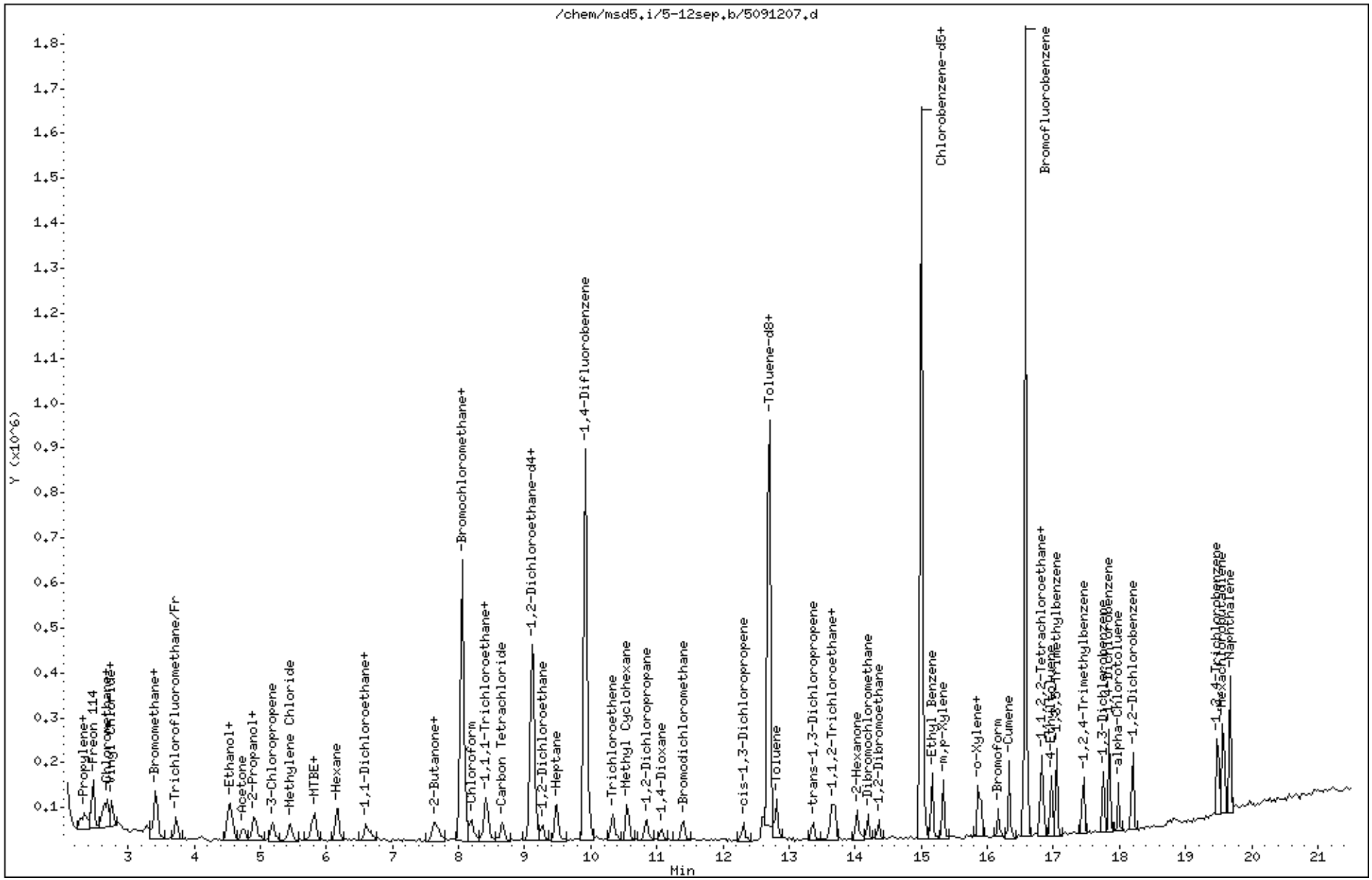
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-12sep.b/5091207.d
Date : 12-SEP-2007 10:43
Client ID: Level 3
Sample Info: 2.0mL #1443-294

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091208.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 12-SEP-2007 11:11
Operator : ct Inst ID: msd5.i
Smp Info : 25mL #1443-294
Misc Info : 200ppbv ->25ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 12:22 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 11:11 Cal File: 5091208.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	372388	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	282471			48.04- 108.04	75.85
8.059	8.059 (1.000)	49	808621			192.32- 252.32	217.14
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1418665	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	237187			0.00- 47.48	16.72
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1160375	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	696519			0.00- 30.00	60.03
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	517775	25.0000	24.462	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	277490			0.00- 30.00	53.59
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1272773	25.0000	25.476	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	129524			0.00- 30.00	10.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	836754			0.00- 30.00	65.74
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	599424	25.0000	25.674	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	941115			131.34- 191.34	157.00
16.575	16.575 (1.105)	176	553125			69.24- 129.24	92.28
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	758156	25.0000	28.116	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	504632			0.00- 30.00	66.56
2.280	2.280 (0.283)	39	489768			0.00- 30.00	64.60
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1318478	25.0000	32.795	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	338238			0.00- 30.00	25.65
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1179334	25.0000	28.762	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	354919			1.77- 61.77	30.09
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1028536	25.0000	28.901	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	306702			0.00- 30.00	29.82
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	911967	25.0000	32.106	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	285890			0.00- 30.00	31.35
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	826708	25.0000	31.077	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	954243			0.00- 30.00	115.43
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	610353	25.0000	31.381	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	581325			65.53- 125.53	95.24
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	484606	25.0000	31.063	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	145223			0.00- 30.00	29.97
3.414	3.414 (0.424)	66	140967			0.00- 30.00	29.09
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1338210	25.0000	29.578	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	857439			34.64- 94.64	64.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	343825	25.0000	28.465	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	71338			0.00- 30.00	20.75
4.077	4.077 (0.506)	46	137578			0.00- 30.00	40.01
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	867033	25.0000	29.068	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	553643			32.78- 92.78	63.85
4.520	4.520 (0.561)	101	1196917			105.88- 165.88	138.05
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1107287	25.0000	29.723	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	631633			25.13- 85.13	57.04
4.575	4.575 (0.568)	98	409718			6.97- 66.97	37.00
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	420873	25.0000	29.817	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	1288530			0.00- 30.00	306.16
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1547208	25.0000	29.953	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	325576			0.00- 30.00	21.04
4.935	4.935 (0.612)	59	54096			0.00- 30.00	3.50
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1941942	25.0000	29.789	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	310584	25.0000	28.860	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	1244755			0.00- 30.00	400.78
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	960351	25.0000	27.640	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	535110			24.30- 84.30	55.72
5.432	5.432 (0.674)	51	293242			0.00- 30.00	30.53
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	570699	25.0000	21.665	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	189992			3.60- 63.60	33.29
5.764	5.764 (0.715)	41	211150			0.00- 30.00	37.00
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	705895	25.0000	27.347	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	1123018			130.11- 190.11	159.09
5.819	5.819 (0.722)	98	449996			0.00- 30.00	63.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1462508	25.0000	30.644	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	1004361			0.00- 30.00	68.67
6.179	6.179 (0.767)	86	197469			0.00- 30.00	13.50
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1247446	25.0000	29.115	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	367983			0.62- 60.62	29.50
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	295849	25.0000	31.327	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1754210			582.09- 642.09	592.94
7.672	7.672 (0.952)	57	119950			0.00- 30.00	40.54
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	939672	25.0000	29.027	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	625987			36.07- 96.07	66.62
7.617	7.617 (0.945)	98	402434			12.20- 72.20	42.83
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1073381	25.0000	25.089	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	259847			0.00- 53.51	24.21
8.059	8.059 (1.000)	72	290588			0.00- 30.00	27.07
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1022791	25.0000	26.683	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	656246			34.40- 94.40	64.16
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1001982	25.0000	30.308	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	650538			34.17- 94.17	64.93
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	818081	25.0000	30.642	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1346716			132.70- 192.70	164.62
8.418	8.418 (1.045)	41	788640			62.58- 122.58	96.40
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	136837	25.0000	31.132	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1957798			0.00- 30.00	1430.75
6.649	6.649 (0.825)	42	134346			0.00- 30.00	98.18
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	826596	25.0000	29.578	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	892736			74.66- 134.66	108.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	3816650	25.0000	31.228	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	1284089			0.00- 30.00	33.64
9.110	9.110 (1.130)	41	1050052			0.00- 30.00	27.51
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1679650	25.0000	26.442	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	393058			0.00- 30.00	23.40
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	798139	25.0000	30.002	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	253629			0.00- 30.00	31.78
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	193495	25.0000	27.511	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1620040			0.00- 30.00	837.25
9.497	9.497 (0.958)	71	586096			0.00- 30.00	302.90
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	680465	25.0000	30.437	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	649642			66.49- 126.49	95.47
10.326	10.326 (1.042)	97	432584			33.34- 93.34	63.57
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	635659	25.0000	27.067	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	455903			39.46- 99.46	71.72
10.852	10.852 (1.095)	41	475795			42.31- 102.31	74.85
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	468971	25.0000	26.760	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	441848			67.83- 127.83	94.22
11.073	11.073 (1.117)	57	135430			0.00- 30.00	28.88
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	950038	25.0000	32.225	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	627199			33.91- 93.91	66.02
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	692257	25.0000	33.145	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	225244			1.87- 61.87	32.54
12.317	12.317 (1.243)	39	543106			45.66- 105.66	78.45
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	622540	25.0000	34.332	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	1798983			0.00- 30.00	288.97
12.593	12.593 (1.271)	85	196513			0.00- 30.00	31.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1659006	25.0000	30.884	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	1006485			30.30- 90.30	60.67
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	699698	25.0000	34.458	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	226835			1.10- 61.10	32.42
13.368	13.368 (0.891)	39	510132			43.72- 103.72	72.91
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	593520	25.0000	29.933	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	357570			31.14- 91.14	60.25
13.644	13.644 (0.910)	83	459025			54.39- 114.39	77.34
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	678544	25.0000	29.046	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	559134			51.10- 111.10	82.40
13.699	13.699 (0.913)	131	531580			46.73- 106.73	78.34
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	891068	25.0000	30.652	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1894934			176.43- 236.43	212.66
14.031	14.031 (0.935)	100	129904			0.00- 30.00	14.58
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	836140	25.0000	34.037	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	643139			0.00- 30.00	76.92
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	878594	25.0000	32.258	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	824902			63.31- 123.31	93.89
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1311535	25.0000	30.195	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	418756			1.73- 61.73	31.93
15.027	15.027 (1.002)	77	802970			33.09- 93.09	61.22
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	725917	25.0000	28.638	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	2387549			0.00- 30.00	328.90
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	904627	25.0000	29.326	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1950705			0.00- 30.00	215.64
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	839080	25.0000	34.481	70.00- 130.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	1826678			193.91- 253.91	217.70
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1304463	25.0000	31.646	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	677928			23.21- 83.21	51.97
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	750750	25.0000	31.740	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	394541			19.49- 79.49	52.55
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1231420	25.0000	31.076	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	790274			36.45- 96.45	64.18
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2475437	25.0000	31.852	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	749479			0.00- 59.05	30.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2358046	25.0000	31.744	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1118895			0.00- 30.00	47.45
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2038811	25.0000	33.526	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	961962			16.04- 76.04	47.18
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1385439	25.0000	29.299	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	874356			0.00- 30.00	63.11
17.764	17.764 (1.184)	111	540777			0.00- 30.00	39.03
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1609006	25.0000	30.139	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	984394			0.00- 30.00	61.18
17.847	17.847 (1.190)	111	693919			0.00- 30.00	43.13
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2109410	25.0000	37.023	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	411535			0.00- 30.00	19.51
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1457345	25.0000	28.996	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	916907			33.11- 93.11	62.92
18.206	18.206 (1.214)	111	579487			10.71- 70.71	39.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	980925	25.0000	24.713	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	921017			65.19- 125.19	93.89
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	731023	25.0000	27.680	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	465711			31.53- 91.53	63.71
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2998513	25.0000	30.462	70.00- 130.00	100.00
16.851	16.851 (1.123)	120	669258			0.00- 30.00	22.32
16.824	16.824 (1.122)	105	103279			0.00- 30.00	3.44
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2540393	25.0000	31.061	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	686159			0.00- 30.00	27.01
16.326	16.326 (1.088)	51	370149			0.00- 30.00	14.57
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	3275255	25.0000	25.746	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	418588			0.00- 30.00	12.78
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1361481	25.0000	28.424	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	836959			0.00- 30.00	61.47
3.414	3.414 (0.424)	72	82736			0.00- 30.00	6.08
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	229351	25.0000	26.895	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1739046			0.00- 30.00	758.25
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	984730	25.0000	31.145	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	500431			0.00- 30.00	50.82
10.547	10.547 (1.064)	55	1138874			0.00- 30.00	115.65

Report Date: 12-Sep-2007 12:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091208.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv ->25ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	372388	-1.14
92 1,4-Difluorobenze	1436723	862034	2011412	1418665	-1.26
125 Chlorobenzene-d5	1196769	718061	1675477	1160375	-3.04

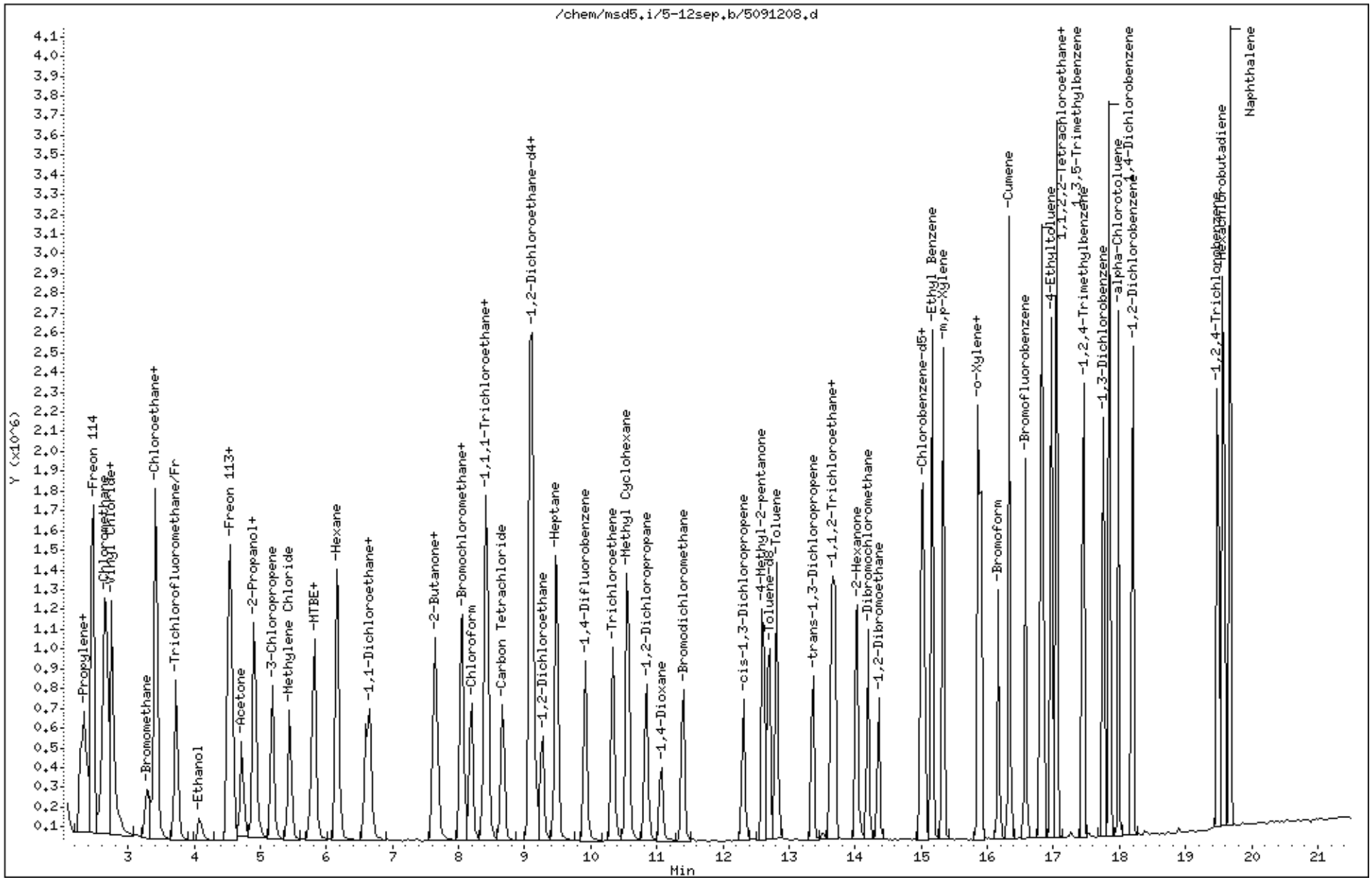
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-12sep.b/5091208.d
Date : 12-SEP-2007 11:11
Client ID: Level 4
Sample Info: 25mL #1443-294

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091209.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 12-SEP-2007 11:39
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1443-294
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 12:23 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 11:39 Cal File: 5091209.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	376675	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	293974			48.04- 108.04	78.04
8.059	8.059 (1.000)	49	837439			192.32- 252.32	222.32
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1436723	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	251174			0.00- 47.48	17.48
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1196769	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	703236			0.00- 30.00	58.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	551088	25.0000	25.551	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	305280			0.00- 30.00	55.40
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1309614	25.0000	25.658	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	138939			0.00- 30.00	10.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	867713			0.00- 30.00	66.26
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	586464	25.0000	24.513	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	946208			131.34- 191.34	161.34
16.575	16.575 (1.105)	176	582036			69.24- 129.24	99.24
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1459886	50.0000	52.295	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	972081			0.00- 30.00	66.59
2.280	2.280 (0.283)	39	969317			0.00- 30.00	66.40
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2400436	50.0000	56.479	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	769189			0.00- 30.00	32.04
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2234699	50.0000	52.855	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	709945			1.77- 61.77	31.77
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1954091	50.0000	52.777	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	596919			0.00- 30.00	30.55
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1767997	50.0000	58.179	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	540107			0.00- 30.00	30.55
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1656182	50.0000	58.189	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	1857560			0.00- 30.00	112.16
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1200080	50.0000	57.819	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	1146454			65.53- 125.53	95.53
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	909718	50.0000	55.525	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	259258			0.00- 30.00	28.50
3.414	3.414 (0.424)	66	258307			0.00- 30.00	28.39
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2607639	50.0000	55.058	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	1685526			34.64- 94.64	64.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	682610	50.0000	53.766	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	127271			0.00- 30.00	18.64
4.078	4.078 (0.506)	46	291534			0.00- 30.00	42.71
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1668587	50.0000	53.875	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1047518			32.78- 92.78	62.78
4.520	4.520 (0.561)	101	2267316			105.88- 165.88	135.88
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2235499	50.0000	56.682	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1232449			25.13- 85.13	55.13
4.575	4.575 (0.568)	98	826413			6.97- 66.97	36.97
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	837433	50.0000	55.454	70.00- 130.00	100.00
4.714	4.714 (0.585)	43	2611081			0.00- 30.00	311.80
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	3242833	50.0000	57.444	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	645216			0.00- 30.00	19.90
4.935	4.935 (0.612)	59	110628			0.00- 30.00	3.41
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3781531	50.0000	55.316	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	625305	50.0000	54.727	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	2446393			0.00- 30.00	391.23
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1923870	50.0000	53.474	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	1044699			24.30- 84.30	54.30
5.432	5.432 (0.674)	51	576778			0.00- 30.00	29.98
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	927385	50.0000	37.667	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	311563			3.60- 63.60	33.60
5.764	5.764 (0.715)	41	350040			0.00- 30.00	37.74
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	1381737	50.0000	52.159	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	2212360			130.11- 190.11	160.11
5.820	5.820 (0.722)	98	872872			0.00- 30.00	63.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2870511	50.0000	56.776	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	2028666			0.00- 30.00	70.67
6.179	6.179 (0.767)	86	379006			0.00- 30.00	13.20
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2429144	50.0000	54.404	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	743874			0.62- 60.62	30.62
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	567449	50.0000	56.736	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	3473292			582.09- 642.09	612.09
7.672	7.672 (0.952)	57	251087			0.00- 30.00	44.25
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1831720	50.0000	54.326	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1210273			36.07- 96.07	66.07
7.617	7.617 (0.945)	98	772979			12.20- 72.20	42.20
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2158310	50.0000	49.905	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	507376			0.00- 53.51	23.51
8.031	8.031 (0.997)	72	571562			0.00- 30.00	26.48
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2013151	50.0000	51.527	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	1296525			34.40- 94.40	64.40
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1961726	50.0000	56.227	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	1258788			34.17- 94.17	64.17
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	1638432	50.0000	57.598	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	2665682			132.70- 192.70	162.70
8.419	8.419 (1.045)	41	1516889			62.58- 122.58	92.58
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	293400	50.0000	59.634	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	4076506			0.00- 30.00	1389.40
6.649	6.649 (0.825)	42	297077			0.00- 30.00	101.25
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1652614	50.0000	56.090	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1729701			74.66- 134.66	104.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7707720	50.0000	58.722	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	2498724			0.00- 30.00	32.42
9.110	9.110 (1.130)	41	2065214			0.00- 30.00	26.79
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3303201	50.0000	51.072	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	754585			0.00- 30.00	22.84
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1578058	50.0000	56.166	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	496588			0.00- 30.00	31.47
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	398189	50.0000	54.301	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	3254318			0.00- 30.00	817.28
9.497	9.497 (0.958)	71	1177118			0.00- 30.00	295.62
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1328108	50.0000	56.225	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	1281514			66.49- 126.49	96.49
10.326	10.326 (1.042)	97	841161			33.34- 93.34	63.34
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1280417	50.0000	52.824	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	889367			39.46- 99.46	69.46
10.852	10.852 (1.095)	41	925819			42.31- 102.31	72.31
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	933131	50.0000	51.689	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	912875			67.83- 127.83	97.83
11.073	11.073 (1.117)	57	287820			0.00- 30.00	30.84
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1893620	50.0000	59.435	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	1210147			33.91- 93.91	63.91
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1399129	50.0000	61.206	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	445857			1.87- 61.87	31.87
12.317	12.317 (1.243)	39	1058553			45.66- 105.66	75.66
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1266813	50.0000	63.004	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	3645779			0.00- 30.00	287.79
12.594	12.594 (1.271)	85	402775			0.00- 30.00	31.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3279995	50.0000	57.342	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	1977697			30.30- 90.30	60.30
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1452861	50.0000	63.247	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	451778			1.10- 61.10	31.10
13.368	13.368 (0.891)	39	1071033			43.72- 103.72	73.72
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1120087	50.0000	53.495	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	684838			31.14- 91.14	61.14
13.644	13.644 (0.910)	83	945283			54.39- 114.39	84.39
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1325210	50.0000	53.660	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	1074789			51.10- 111.10	81.10
13.700	13.700 (0.913)	131	1016870			46.73- 106.73	76.73
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1830021	50.0000	56.853	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	3777785			176.43- 236.43	206.43
14.031	14.031 (0.935)	100	279032			0.00- 30.00	15.25
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1680649	50.0000	61.326	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	1315877			0.00- 30.00	78.30
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1723824	50.0000	58.066	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	1608520			63.31- 123.31	93.31
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	2574840	50.0000	55.405	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	816906			1.73- 61.73	31.73
15.027	15.027 (1.002)	77	1624486			33.09- 93.09	63.09
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1428591	50.0000	53.404	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	4731221			0.00- 30.00	331.18
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1786475	50.0000	54.476	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	3791370			0.00- 30.00	212.23
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1654965	50.0000	61.073	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3705610			193.91- 253.91	223.91
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2594685	50.0000	58.452	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	1380625			23.21- 83.21	53.21
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1584572	50.0000	60.435	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	784179			19.49- 79.49	49.49
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2370941	50.0000	55.778	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	1575430			36.45- 96.45	66.45
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5143198	50.0000	59.922	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	1493879			0.00- 59.05	29.05
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4690910	50.0000	57.973	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	2189396			0.00- 30.00	46.67
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4097497	50.0000	60.679	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	1886540			16.04- 76.04	46.04
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2800287	50.0000	55.365	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	1769164			0.00- 30.00	63.18
17.764	17.764 (1.184)	111	1121905			0.00- 30.00	40.06
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3193784	50.0000	55.772	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	2010305			0.00- 30.00	62.94
17.847	17.847 (1.190)	111	1406175			0.00- 30.00	44.03
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4632835	50.0000	68.904	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	868864			0.00- 30.00	18.75
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2819547	50.0000	53.224	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	1779432			33.11- 93.11	63.11
18.206	18.206 (1.214)	111	1147930			10.71- 70.71	40.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1963268	50.0000	48.620	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	1868805			65.19- 125.19	95.19
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1382023	50.0000	50.489	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	850315			31.53- 91.53	61.53
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5967770	50.0000	56.311	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	1334152			0.00- 30.00	22.36
16.824	16.824 (1.122)	105	202707			0.00- 30.00	3.40
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5022972	50.0000	57.357	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	1325683			0.00- 30.00	26.39
16.326	16.326 (1.088)	51	759636			0.00- 30.00	15.12
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6990287	50.0000	52.138	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	867448			0.00- 30.00	12.41
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2729250	50.0000	54.050	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1693048			0.00- 30.00	62.03
3.414	3.414 (0.424)	72	161372			0.00- 30.00	5.91
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	443079	50.0000	50.903	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	3397463			0.00- 30.00	766.78
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	1933713	50.0000	57.408	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	987177			0.00- 30.00	51.05
10.548	10.548 (1.064)	55	2261187			0.00- 30.00	116.93

Report Date: 12-Sep-2007 12:23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	376675	0.00
92 1,4-Difluorobenze	1436723	862034	2011412	1436723	0.00
125 Chlorobenzene-d5	1196769	718061	1675477	1196769	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

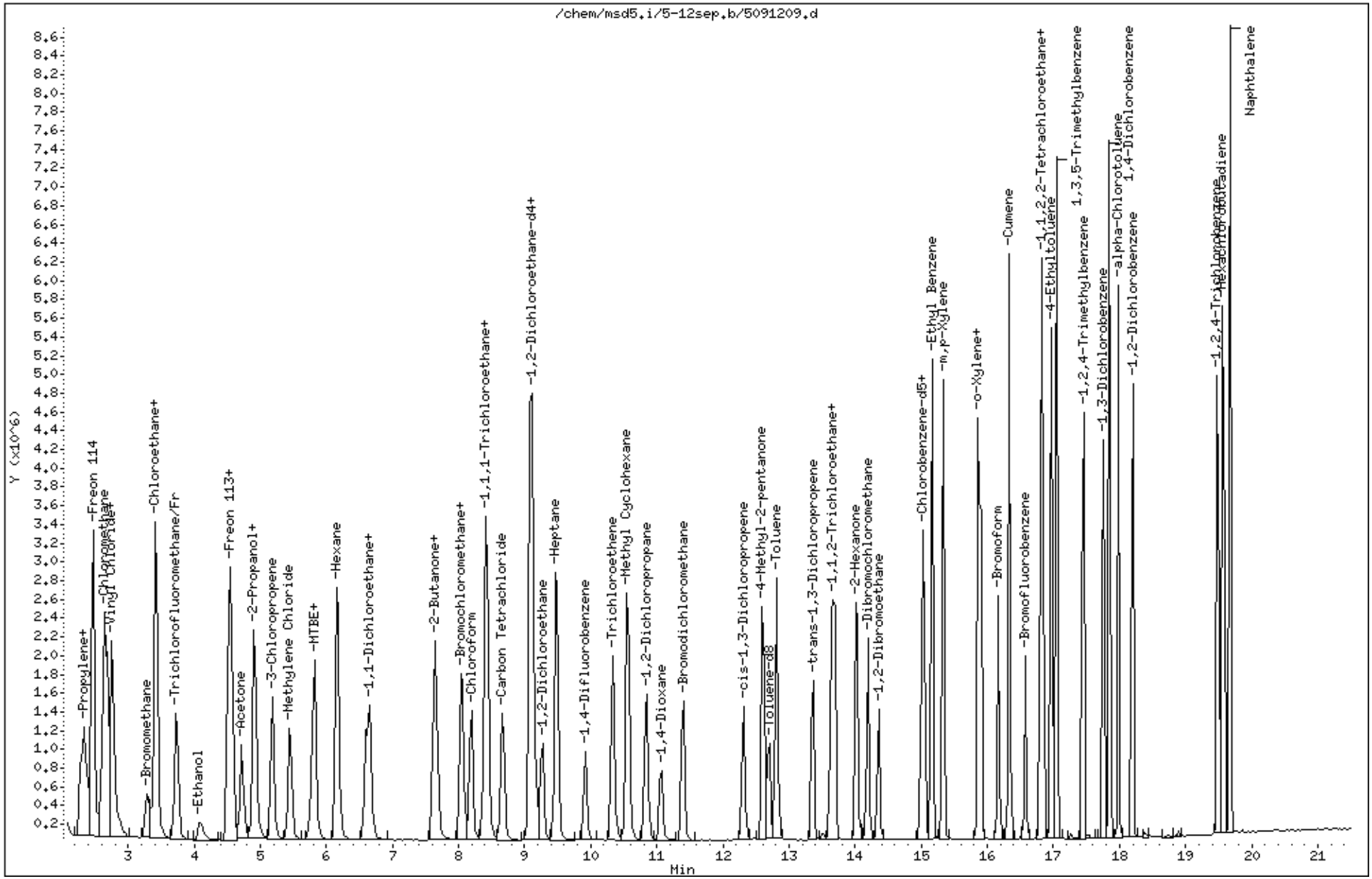
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0154

Data File: /chem/msd5.i/5-12sep.b/5091209.d
Date : 12-SEP-2007 11:39
Client ID: Level 5
Sample Info: 50mL #1443-294

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091210.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 12-SEP-2007 12:07
Operator : ct Inst ID: msd5.i
Smp Info : 100mL #1443-294
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 12:23 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:07 Cal File: 5091210.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	400221	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	304579			46.10- 106.10	76.10
8.059	8.059 (1.000)	49	873052			188.14- 248.14	218.14
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1522056	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	254251			0.00- 46.70	16.70
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1266933	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	747100			28.97- 88.97	58.97
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	599554	25.0000	25.921	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	366942			31.20- 91.20	61.20
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1397150	25.0000	25.666	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	137967			0.00- 39.87	9.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	985182			40.51- 100.51	70.51
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	635312	25.0000	25.067	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1033766			132.72- 192.72	162.72
16.575	16.575 (1.105)	176	610108			66.03- 126.03	96.03
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2871005	100.000	97.575	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	1942145			37.65- 97.65	67.65
2.280	2.280 (0.283)	39	1936139			37.44- 97.44	67.44
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	4591672	100.000	101.34	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	1464532			1.90- 61.90	31.90
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	4323355	100.000	96.968	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	1369295			1.67- 61.67	31.67
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	3826231	100.000	97.931	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	1137153			0.00- 59.72	29.72
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	3472633	100.000	105.95	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	1037936			0.00- 59.89	29.89
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	3307136	100.000	107.35	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	3850353			86.43- 146.43	116.43
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	2435305	100.000	108.17	70.00- 130.00	100.00
3.303	3.303 (0.410)	96	2271384			63.27- 123.27	93.27
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	1811311	100.000	103.21	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	511001			0.00- 58.21	28.21
3.442	3.442 (0.427)	66	441394			0.00- 54.37	24.37
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	5129980	100.000	101.55	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	3338698			35.08- 95.08	65.08

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	1275883	100.000	95.881	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	227317			0.00- 47.82	17.82
4.133	4.133 (0.513)	46	498162			9.04- 69.04	39.04
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	3300030	100.000	100.22	70.00- 130.00	100.00
4.548	4.548 (0.564)	153	2103922			33.75- 93.75	63.75
4.520	4.520 (0.561)	101	4531665			107.32- 167.32	137.32
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	4399590	100.000	103.95	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	2493975			26.69- 86.69	56.69
4.575	4.575 (0.568)	98	1580236			5.92- 65.92	35.92
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1715481	100.000	105.10	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	5215564			274.03- 334.03	304.03
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	6677357	100.000	108.26	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	1331621			0.00- 49.94	19.94
4.935	4.935 (0.612)	59	231457			0.00- 33.47	3.47
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	7566919	100.000	103.31	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	1226462	100.000	100.77	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	4982268			376.23- 436.23	406.23
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	3859521	100.000	100.77	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	2134097			25.29- 85.29	55.29
5.460	5.460 (0.678)	51	1190476			0.85- 60.85	30.85
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1783272	100.000	72.803	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	607739			4.08- 64.08	34.08
5.764	5.764 (0.715)	41	653436			6.64- 66.64	36.64
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	2822367	100.000	100.22	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	4465699			128.23- 188.23	158.23
5.819	5.819 (0.722)	98	1785093			33.25- 93.25	63.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	5786809	100.000	106.08	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	4141634			41.57- 101.57	71.57
6.179	6.179 (0.767)	86	809631			0.00- 43.99	13.99
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	4844883	100.000	101.69	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	1474950			0.44- 60.44	30.44
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	1174437	100.000	108.24	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	7176709			581.08- 641.08	611.08
7.672	7.672 (0.952)	57	510519			13.47- 73.47	43.47
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	3657719	100.000	101.67	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	2435587			36.59- 96.59	66.59
7.617	7.617 (0.945)	98	1564314			12.77- 72.77	42.77
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	4362547	100.000	95.908	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	1063134			0.00- 54.37	24.37
8.031	8.031 (0.997)	72	1146259			0.00- 56.27	26.27
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	4084225	100.000	98.651	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2624577			34.26- 94.26	64.26
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	4025488	100.000	106.76	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2590591			34.35- 94.35	64.35
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	3259395	100.000	106.18	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	5409167			135.96- 195.96	165.96
8.419	8.419 (1.045)	41	3036768			63.17- 123.17	93.17
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	642486	100.000	116.25	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	9003379			1371.33-1431.33	1401.33
6.649	6.649 (0.825)	42	655580			72.04- 132.04	102.04
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3449648	100.000	107.99	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	3550633			72.93- 132.93	102.93

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	15939016	100.000	111.11	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	5165273			2.41- 62.41	32.41
9.110	9.110 (1.130)	41	4158674			0.00- 56.09	26.09
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	6657236	100.000	97.622	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1519366			0.00- 52.82	22.82
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	3185053	100.000	105.53	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	1006317			1.59- 61.59	31.59
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	790697	100.000	101.42	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	6665172			812.95- 872.95	842.95
9.497	9.497 (0.958)	71	2372438			270.04- 330.04	300.04
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2698290	100.000	106.16	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2599333			66.33- 126.33	96.33
10.326	10.326 (1.042)	97	1739413			34.46- 94.46	64.46
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	2606320	100.000	101.19	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	1850224			40.99- 100.99	70.99
10.852	10.852 (1.095)	41	1861167			41.41- 101.41	71.41
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1948676	100.000	101.41	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	1900651			67.54- 127.54	97.54
11.073	11.073 (1.117)	57	573947			0.00- 59.45	29.45
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	3925400	100.000	112.63	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	2517908			34.14- 94.14	64.14
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2943945	100.000	116.54	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	913541			1.03- 61.03	31.03
12.317	12.317 (1.243)	39	2241048			46.12- 106.12	76.12
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	2604150	100.000	117.04	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	7529522			259.14- 319.14	289.14
12.594	12.594 (1.271)	85	868801			3.36- 63.36	33.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	6760182	100.000	109.04	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	4060329			30.06- 90.06	60.06
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	3017299	100.000	118.38	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	949602			1.47- 61.47	31.47
13.368	13.368 (0.891)	39	2213772			43.37- 103.37	73.37
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2265062	100.000	101.74	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1389740			31.36- 91.36	61.36
13.644	13.644 (0.910)	83	1849922			51.67- 111.67	81.67
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	2611800	100.000	99.919	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	2149848			52.31- 112.31	82.31
13.700	13.700 (0.913)	131	2047651			48.40- 108.40	78.40
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	3895413	100.000	110.37	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	8089635			177.67- 237.67	207.67
14.031	14.031 (0.935)	100	574070			0.00- 44.74	14.74
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3507354	100.000	116.04	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2752627			48.48- 108.48	78.48
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	3477622	100.000	108.35	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	3276160			64.21- 124.21	94.21
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	5280305	100.000	105.78	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	1669705			1.62- 61.62	31.62
15.027	15.027 (1.002)	77	3266934			31.87- 91.87	61.87
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2909753	100.000	102.19	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	9881755			309.61- 369.61	339.61
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	3625815	100.000	103.52	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	7894351			187.73- 247.73	217.73
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	3339999	100.000	112.72	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	7704115			200.66- 260.66	230.66
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	5560599	100.000	114.82	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	2932537			22.74- 82.74	52.74
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	3281591	100.000	114.07	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1691942			21.56- 81.56	51.56
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	4948596	100.000	107.82	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	3190923			34.48- 94.48	64.48
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	10421459	100.000	111.42	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	3074965			0.00- 59.51	29.51
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	9618639	100.000	109.60	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	4537725			17.18- 77.18	47.18
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	8612224	100.000	115.74	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	3899225			15.28- 75.28	45.28
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	5654095	100.000	104.43	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	3588408			33.47- 93.47	63.47
17.764	17.764 (1.184)	111	2302189			10.72- 70.72	40.72
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	6433808	100.000	104.84	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	4071847			33.29- 93.29	63.29
17.847	17.847 (1.190)	111	2825564			13.92- 73.92	43.92
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	10478250	100.000	134.51	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1953355			0.00- 48.64	18.64
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	5739495	100.000	101.86	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	3643996			33.49- 93.49	63.49
18.206	18.206 (1.214)	111	2369655			11.29- 71.29	41.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	4180509	100.000	98.337	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	3946361			64.40- 124.40	94.40
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2946853	100.000	101.27	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1840738			32.46- 92.46	62.46
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	12476161	100.000	108.77	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	2646388			0.00- 51.21	21.21
16.824	16.824 (1.122)	105	429382			0.00- 33.44	3.44
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	10334090	100.000	109.38	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2695876			0.00- 56.09	26.09
16.326	16.326 (1.088)	51	1525058			0.00- 44.76	14.76
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14905046	100.000	103.72	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1822273			0.00- 42.23	12.23
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	5362846	100.000	99.968	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	3369675			32.83- 92.83	62.83
3.414	3.414 (0.424)	72	322738			0.00- 36.02	6.02
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	881469	100.000	96.440	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	6754377			736.26- 796.26	766.26
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	3964059	100.000	108.68	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	2004799			20.57- 80.57	50.57
10.548	10.548 (1.064)	55	4621112			86.58- 146.58	116.58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091210.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	400221	6.25
92 1,4-Difluorobenze	1436723	862034	2011412	1522056	5.94
125 Chlorobenzene-d5	1196769	718061	1675477	1266933	5.86

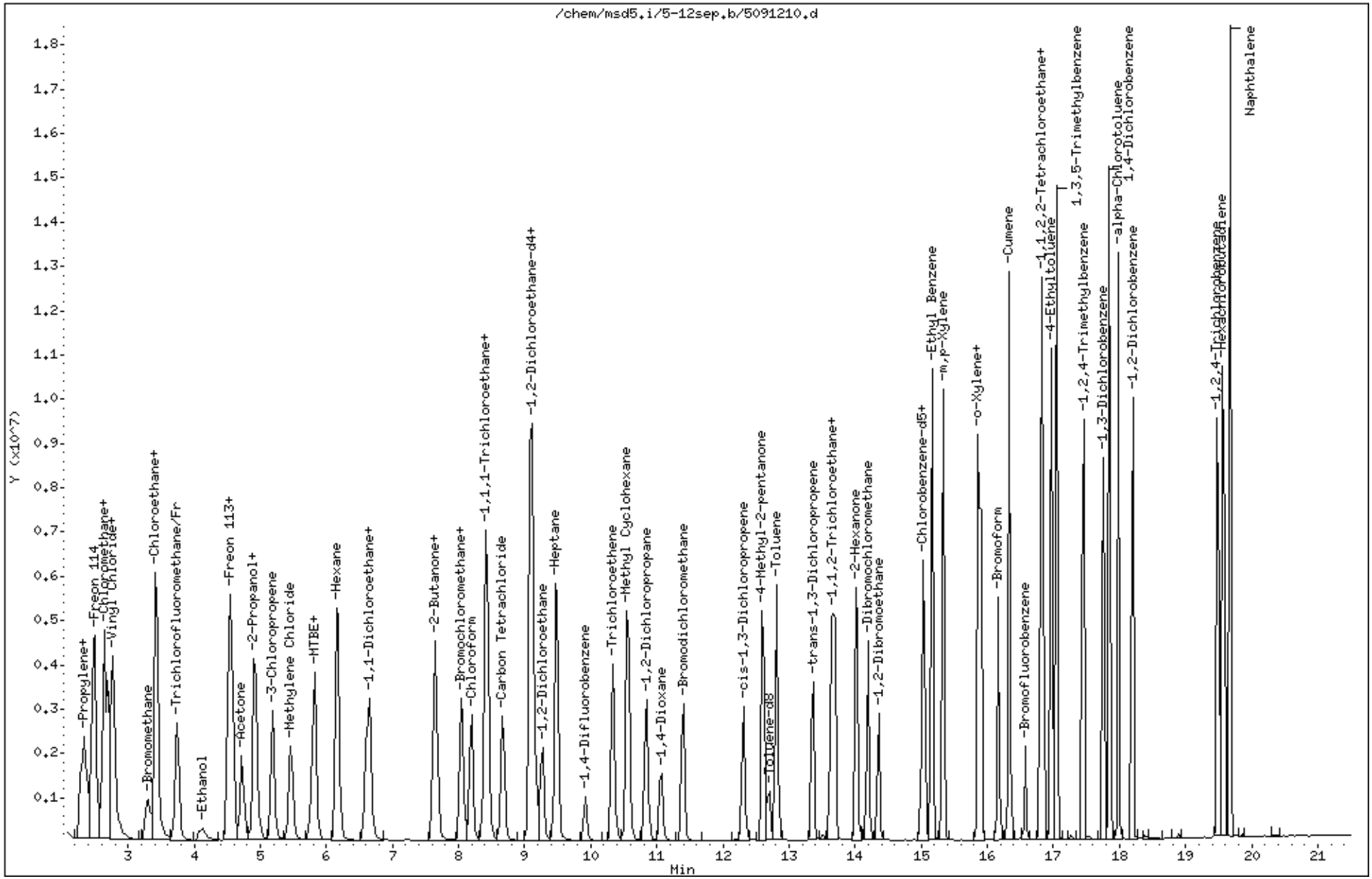
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-12sep.b/5091210.d
Date : 12-SEP-2007 12:07
Client ID: Level 6
Sample Info: 100mL #1443-294

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12sep.b/5091211.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 12-SEP-2007 12:39
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1443-294
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-12sep.b/t14q912a.m
Meth Date : 12-Sep-2007 13:05 lrandolp Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	407871	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	336851			48.04- 108.04	82.59
8.059	8.059 (1.000)	49	983702			192.32- 252.32	241.18
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1633157	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	276318			0.00- 47.48	16.92
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1324636	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	778311			0.00- 30.00	58.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	661564	25.0000	27.504	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	461082			0.00- 30.00	69.70
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1473100	25.0000	25.183	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	154185			0.00- 30.00	10.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	1096989			0.00- 30.00	74.47
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	663445	25.0000	25.031	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1084727			131.34- 191.34	163.50
16.575	16.575 (1.105)	176	648229			69.24- 129.24	97.71
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	5947511	200.000	198.67	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	3992433			0.00- 30.00	67.13
2.280	2.280 (0.283)	39	3923641			0.00- 30.00	65.97
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	9087660	200.000	197.33	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	2909978			0.00- 30.00	32.02
9 Freon 114					CAS #: 76-14-2		
2.529	2.529 (0.314)	135	8521177	200.000	189.50	70.00- 130.00	100.00
2.529	2.529 (0.314)	137	2665980			1.77- 61.77	31.29
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	7113637	200.000	182.55	70.00- 130.00	100.00
2.640	2.640 (0.328)	52	2118415			0.00- 30.00	29.78
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	6900691	200.000	205.46	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	64	2137109			0.00- 30.00	30.97
12 1,3-Butadiene					CAS #: 106-99-0		
2.806	2.806 (0.348)	54	6597059	200.000	208.36	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	7903257			0.00- 30.00	119.80
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	4838537	200.000	208.99	70.00- 130.00	100.00(A)
3.303	3.303 (0.410)	96	4560257			65.53- 125.53	94.25
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	3670671	200.000	204.35	70.00- 130.00	100.00(A)
3.442	3.442 (0.427)	49	860795			0.00- 30.00	23.45
3.442	3.442 (0.427)	66	878213			0.00- 30.00	23.93
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	10395798	200.000	201.60	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	6723051			34.64- 94.64	64.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.160	4.160 (0.516)	45	2700598	200.000	199.31	70.00- 130.00	100.00
4.160	4.160 (0.516)	43	484929			0.00- 30.00	17.96
4.160	4.160 (0.516)	46	1152976			0.00- 30.00	42.69
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	6669099	200.000	198.96	70.00- 130.00	100.00
4.548	4.548 (0.564)	153	4206052			32.78- 92.78	63.07
4.548	4.548 (0.564)	101	9014778			105.88- 165.88	135.17
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	8970877	200.000	206.61	70.00- 130.00	100.00(A)
4.603	4.603 (0.571)	96	5089129			25.13- 85.13	56.73
4.603	4.603 (0.571)	98	3253640			6.97- 66.97	36.27
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	3574146	200.000	211.71	70.00- 130.00	100.00(A)
4.713	4.713 (0.585)	43	10688006			0.00- 30.00	299.04
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	13760840	200.000	214.86	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2667521			0.00- 30.00	19.38
4.935	4.935 (0.612)	59	502296			0.00- 30.00	3.65
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	15322751	200.000	204.38	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	2425064	200.000	196.39	70.00- 130.00	100.00
5.211	5.211 (0.647)	41	10068216			0.00- 30.00	415.17
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	7676299	200.000	197.21	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	4316920			24.30- 84.30	56.24
5.460	5.460 (0.677)	51	2388263			0.00- 30.00	31.11
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	3054146	200.000	130.81	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	1008779			3.60- 63.60	33.03
5.764	5.764 (0.715)	41	1062380			0.00- 30.00	34.78
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	5579155	200.000	195.30	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	9178660			130.11- 190.11	164.52
5.819	5.819 (0.722)	98	3568415			0.00- 30.00	63.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	11923755	200.000	211.93	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	8342224			0.00- 30.00	69.96
6.179	6.179 (0.767)	86	1610161			0.00- 30.00	13.50
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	10043113	200.000	205.67	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	65	2996008			0.62- 60.62	29.83
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	2484987	200.000	220.19	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	14778117			582.09- 642.09	594.70
7.672	7.672 (0.952)	57	1038467			0.00- 30.00	41.79
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	7458843	200.000	202.86	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	4945172			36.07- 96.07	66.30
7.644	7.644 (0.949)	98	3160443			12.20- 72.20	42.37
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	8976270	200.000	194.67	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	2181558			0.00- 53.51	24.30
8.031	8.031 (0.997)	72	2423473			0.00- 30.00	27.00
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	8324898	200.000	197.69	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	5401626			34.40- 94.40	64.89
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	8185166	200.000	210.72	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	5296895			34.17- 94.17	64.71
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	6663710	200.000	210.72	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	56	10997726			132.70- 192.70	165.04
8.418	8.418 (1.045)	41	6135834			62.58- 122.58	92.08
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	1390986	200.000	235.88	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	19012397			0.00- 30.00	1366.83
6.649	6.649 (0.825)	42	1377982			0.00- 30.00	99.07
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	7074874	200.000	214.23	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	7347961			74.66- 134.66	103.86

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	32848677	200.000	220.16	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	10594737			0.00- 30.00	32.25
9.110	9.110 (1.130)	41	8416657			0.00- 30.00	25.62
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	13564184	200.000	187.33	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	3075201			0.00- 30.00	22.67
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	6515993	200.000	201.00	70.00- 130.00	100.00(A)
9.276	9.276 (0.936)	64	2043442			0.00- 30.00	31.36
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1646691	200.000	197.36	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	13490240			0.00- 30.00	819.23
9.497	9.497 (0.958)	71	4887627			0.00- 30.00	296.82
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	5510916	200.000	201.73	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	5147818			66.49- 126.49	93.41
10.326	10.326 (1.042)	97	3536297			33.34- 93.34	64.17
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	5312936	200.000	193.50	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	3830536			39.46- 99.46	72.10
10.852	10.852 (1.095)	41	3756908			42.31- 102.31	70.71
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	3989655	200.000	194.77	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	3872026			67.83- 127.83	97.05
11.073	11.073 (1.117)	57	1218430			0.00- 30.00	30.54
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	8030265	200.000	212.13	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	5156045			33.91- 93.91	64.21
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6078516	200.000	219.81	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1936923			1.87- 61.87	31.87
12.317	12.317 (1.243)	39	4645108			45.66- 105.66	76.42
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	5527433	200.000	225.60	70.00- 130.00	100.00(A)
12.594	12.594 (1.271)	43	15801535			0.00- 30.00	285.87
12.594	12.594 (1.271)	85	1769186			0.00- 30.00	32.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	13931797	200.000	207.79	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	8287478			30.30- 90.30	59.49
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	6449356	200.000	233.82	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	2043000			1.10- 61.10	31.68
13.368	13.368 (0.891)	39	4554969			43.72- 103.72	70.63
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	4629867	200.000	199.09	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	2878282			31.14- 91.14	62.17
13.644	13.644 (0.910)	83	3784821			54.39- 114.39	81.75
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	5229815	200.000	192.75	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	4261891			51.10- 111.10	81.49
13.700	13.700 (0.913)	131	4138811			46.73- 106.73	79.14
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	8284181	200.000	219.12	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	17183432			176.43- 236.43	207.42
14.031	14.031 (0.935)	100	1282584			0.00- 30.00	15.48
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7230696	200.000	223.45	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	5617497			0.00- 30.00	77.69
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	7239163	200.000	212.92	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	6738146			63.31- 123.31	93.08
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	10755351	200.000	205.04	70.00- 130.00	100.00(A)
15.054	15.054 (1.004)	114	3366972			1.73- 61.73	31.31
15.027	15.027 (1.002)	77	6700988			33.09- 93.09	62.30
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	5826452	200.000	196.41	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	18454376			0.00- 30.00	316.73
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	7362743	200.000	200.88	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	16197661			0.00- 30.00	219.99
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	6765976	200.000	215.11	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	15609355			193.91- 253.91	230.70
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	11434942	200.000	221.74	70.00- 130.00	100.00(A)
15.912	15.912 (1.061)	78	6021601			23.21- 83.21	52.66
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	6634954	200.000	216.87	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3533115			19.49- 79.49	53.25
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	9874796	200.000	204.80	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	6381657			36.45- 96.45	64.63
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	21044873	200.000	212.50	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	6128743			0.00- 59.05	29.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	16906304	200.000	186.69	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	8688143			0.00- 30.00	51.39
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	17477606	200.000	220.12	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	7972767			16.04- 76.04	45.62
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	11089665	200.000	196.57	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	6974859			0.00- 30.00	62.90
17.764	17.764 (1.184)	111	4583851			0.00- 30.00	41.33
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	12393878	200.000	194.28	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	7816891			0.00- 30.00	63.07
17.847	17.847 (1.190)	111	5493065			0.00- 30.00	44.32
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14878880	200.000	185.36	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	4027251			0.00- 30.00	27.07
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	11164852	200.000	191.19	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	7097832			33.11- 93.11	63.57
18.206	18.206 (1.214)	111	4725971			10.71- 70.71	42.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	8130888	200.000	186.11	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	7634572			65.19- 125.19	93.90
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	5598915	200.000	187.01	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	3434669			31.53- 91.53	61.35
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	24860221	200.000	206.04	70.00- 130.00	100.00(A)
16.852	16.852 (1.123)	120	5328541			0.00- 30.00	21.43
16.824	16.824 (1.122)	105	863526			0.00- 30.00	3.47
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	18155030	200.000	185.94	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5335962			0.00- 30.00	29.39
16.326	16.326 (1.088)	51	3066164			0.00- 30.00	16.89
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	16288055	200.000	119.33	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	3677566			0.00- 30.00	22.58
17 Isopentane					CAS #: 78-78-4		
3.442	3.442 (0.427)	43	10798739	200.000	198.01	70.00- 130.00	100.00
3.442	3.442 (0.427)	57	6725754			0.00- 30.00	62.28
3.442	3.442 (0.427)	72	645042			0.00- 30.00	5.97
11 Butane					CAS #: 106-97-8		
2.750	2.750 (0.341)	58	1745472	200.000	189.78	70.00- 130.00	100.00
2.750	2.750 (0.341)	43	13567262			0.00- 30.00	777.28
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	8138180	200.000	206.57	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	3989561			0.00- 30.00	49.02
10.547	10.547 (1.064)	55	9439494			0.00- 30.00	115.99

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 12-Sep-2007 13:05

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091211.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-12sep.b/t14q912a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 12-SEP-2007
Calibration Time: 11:39
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	376675	226005	527345	407871	8.28
92 1,4-Difluorobenze	1436723	862034	2011412	1633157	13.67
125 Chlorobenzene-d5	1196769	718061	1675477	1324636	10.68

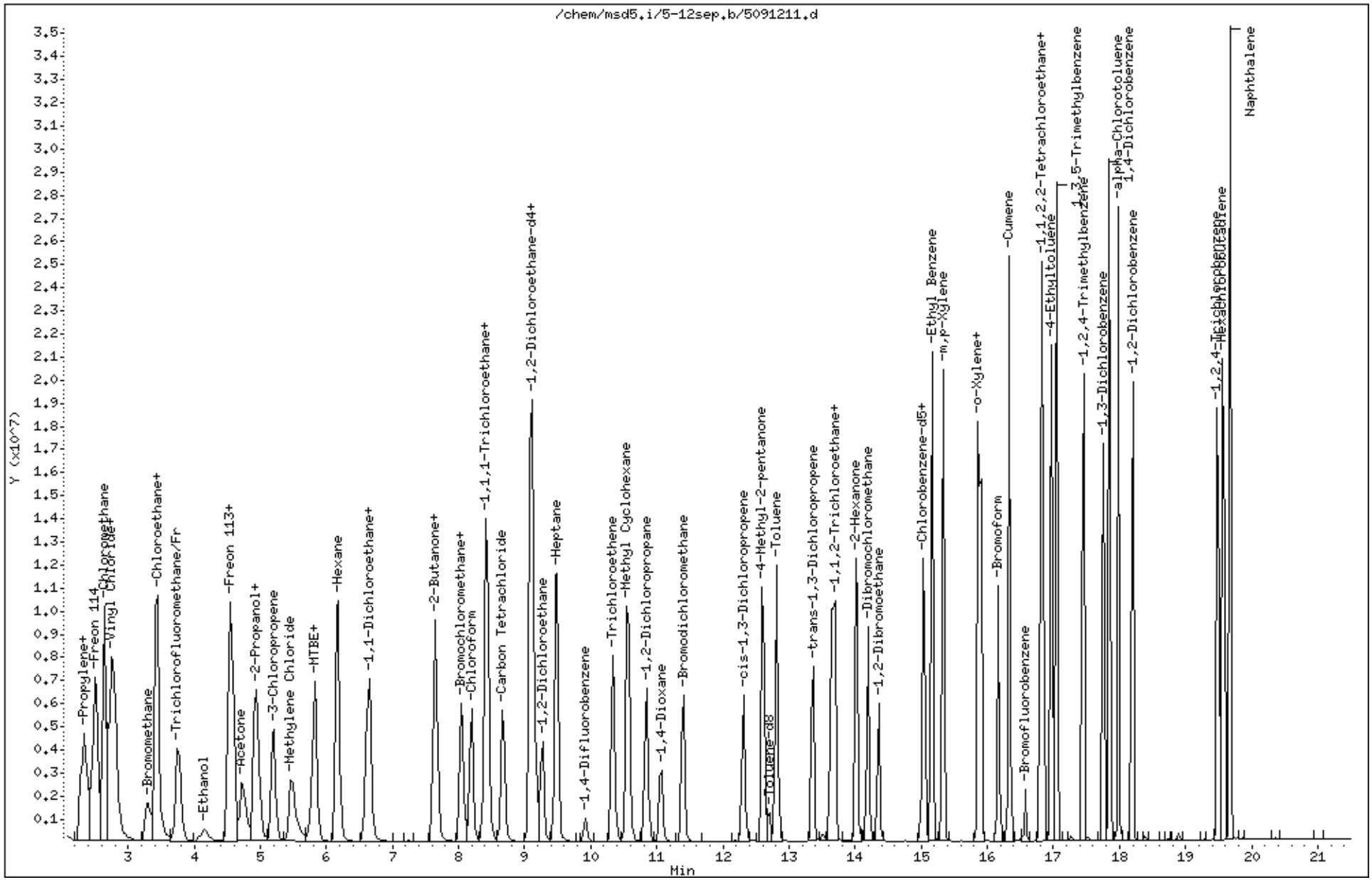
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-12sep.b/5091211.d
Date : 12-SEP-2007 12:39
Client ID: Level 7
Sample Info: 200mL #1443-294

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0709128-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 09:18 AM**	

Compound	%Recovery
Freon 12	100
Freon 114	103
Vinyl Chloride	109
Bromomethane	102
Chloroethane	103
Freon 11	105
1,1-Dichloroethene	105
Freon 113	104
Methylene Chloride	103
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	101
Chloroform	97
1,1,1-Trichloroethane	106
Carbon Tetrachloride	105
Benzene	94
1,2-Dichloroethane	104
Trichloroethene	100
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	104
Toluene	103
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	102
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	106
Chlorobenzene	103
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	110
Styrene	109
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	101
1,3-Butadiene	109
Hexane	106
Cyclohexane	102

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0709128-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 09:18 AM**	

Compound	%Recovery
Heptane	97
Bromodichloromethane	104
Dibromochloromethane	109
Cumene	107
Propylbenzene	104
Chloromethane	104
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	100
Acetone	106
Carbon Disulfide	102
2-Propanol	104
trans-1,2-Dichloroethene	97
2-Butanone (Methyl Ethyl Ketone)	102
Tetrahydrofuran	96
1,4-Dioxane	95
4-Methyl-2-pentanone	107
2-Hexanone	105
Bromoform	108
4-Ethyltoluene	106
Ethanol	103
Methyl tert-butyl ether	75
3-Chloropropene	100
2,2,4-Trimethylpentane	107
Naphthalene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 14-SEP-2007 09:18
Lab File ID: 5091403.d Init. Cal. Date(s): 12-SEP-2007 12-SEP-2007
Analysis Type: AIR Init. Cal. Times: 09:48 12:39
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-14sep.b/t14q912a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.47435	1.51391	0.010	-2.68327	30.00000	Averaged
$ 107 Toluene-d8	0.89543	0.88314	0.010	1.37251	30.00000	Averaged
$ 138 Bromofluorobenzene	0.50024	0.49621	0.010	0.80410	30.00000	Averaged
6 Propylene	1.83491	1.88033	0.010	-2.47558	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.82278	2.80875	0.010	0.49715	30.00000	Averaged
9 Freon 114	2.75611	2.82787	0.010	-2.60375	30.00000	Averaged
10 Chloromethane	2.38847	2.49260	0.010	-4.35936	30.00000	Averaged
13 Vinyl Chloride	2.05863	2.24252	0.010	-8.93285	30.00000	Averaged
12 1,3-Butadiene	1.94063	2.11924	0.010	-9.20354	30.00000	Averaged
15 Bromomethane	1.41906	1.45581	0.010	-2.58977	30.00000	Averaged
19 Chloroethane	1.10100	1.13695	0.010	-3.26575	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.16067	3.31884	0.010	-5.00438	30.00000	Averaged
26 Ethanol	0.83051	0.85807	0.010	-3.31800	30.00000	Averaged
30 Freon 113	2.05460	2.13157	0.010	-3.74626	30.00000	Averaged
31 1,1-Dichloroethene	2.66132	2.80148	0.010	-5.26627	30.00000	Averaged
32 Acetone	1.03476	1.10101	0.010	-6.40297	30.00000	Averaged
36 2-Propanol	3.92569	4.08257	0.010	-3.99617	30.00000	Averaged
35 Carbon Disulfide	4.59527	4.69460	0.010	-2.16152	30.00000	Averaged
38 3-Chloropropene	0.75687	0.76105	0.010	-0.55235	30.00000	Averaged
43 Methylene Chloride	2.38581	2.45464	0.010	-2.88466	30.00000	Averaged
46 MTBE	1.43105	1.06918	0.010	25.28679	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.75094	1.70434	0.010	2.66183	30.00000	Averaged
51 Hexane	3.44857	3.64166	0.010	-5.59913	30.00000	Averaged
55 1,1-Dichloroethane	2.99300	3.11335	0.010	-4.02108	30.00000	Averaged
67 2-Butanone	0.69174	0.70384	0.010	-1.74995	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.25366	2.26755	0.010	-0.61620	30.00000	Averaged
70 Tetrahydrofuran	2.82628	2.72958	0.010	3.42157	30.00000	Averaged
72 Chloroform	2.58114	2.51225	0.010	2.66913	30.00000	Averaged
75 1,1,1-Trichloroethane	2.38091	2.52007	0.010	-5.84464	30.00000	Averaged
74 Cyclohexane	1.93836	1.96965	0.010	-1.61452	30.00000	Averaged
56 Vinyl Acetate	0.36145	0.37040	0.010	-2.47477	30.00000	Averaged
77 Carbon Tetrachloride	2.02419	2.13397	0.010	-5.42357	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.14502	9.76032	0.010	-6.72819	30.00000	Averaged
81 Benzene	1.10839	1.04312	0.010	5.88929	30.00000	Averaged
85 1,2-Dichloroethane	0.49624	0.51417	0.010	-3.61313	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 14-SEP-2007 09:18
Lab File ID: 5091403.d Init. Cal. Date(s): 12-SEP-2007 12-SEP-2007
Analysis Type: AIR Init. Cal. Times: 09:48 12:39
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-14sep.b/t14q912a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.12772	0.12424	0.010	2.72416	30.00000	Averaged
93 Trichloroethene	0.41819	0.41681	0.010	0.32861	30.00000	Averaged
98 1,2-Dichloropropane	0.42031	0.40503	0.010	3.63703	30.00000	Averaged
99 1,4-Dioxane	0.31357	0.29904	0.010	4.63129	30.00000	Averaged
100 Bromodichloromethane	0.57949	0.60359	0.010	-4.15938	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.42331	0.44241	0.010	-4.51302	30.00000	Averaged
106 4-Methyl-2-pentanone	0.37505	0.40212	0.010	-7.21894	30.00000	Averaged
108 Toluene	1.02633	1.05821	0.010	-3.10635	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.52057	0.57987	0.010	-11.39172	30.00000	Averaged
114 1,1,2-Trichloroethane	0.43890	0.44594	0.010	-1.60444	30.00000	Averaged
116 Tetrachloroethene	0.51208	0.52549	0.010	-2.61860	30.00000	Averaged
119 2-Hexanone	0.71353	0.75260	0.010	-5.47590	30.00000	Averaged
120 Dibromochloromethane	0.61073	0.66768	0.010	-9.32609	30.00000	Averaged
122 1,2-Dibromoethane	0.64166	0.67885	0.010	-5.79641	30.00000	Averaged
126 Chlorobenzene	0.99001	1.01582	0.010	-2.60682	30.00000	Averaged
128 Ethyl Benzene	0.55987	0.56033	0.010	-0.08192	30.00000	Averaged
130 m,p-Xylene	0.69174	0.70074	0.010	-1.30119	30.00000	Averaged
132 o-Xylene	0.59364	0.65233	0.010	-9.88734	30.00000	Averaged
133 Styrene	0.97325	1.06289	0.010	-9.21029	30.00000	Averaged
134 Bromoform	0.57742	0.62112	0.010	-7.56832	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.91001	0.94818	0.010	-4.19450	30.00000	Averaged
144 4-Ethyltoluene	1.86904	1.97206	0.010	-5.51194	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.70908	1.81068	0.010	-5.94434	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.49852	1.64463	0.010	-9.75009	30.00000	Averaged
155 1,3-Dichlorobenzene	1.06474	1.10439	0.010	-3.72403	30.00000	Averaged
156 1,4-Dichlorobenzene	1.20401	1.22123	0.010	-1.42981	30.00000	Averaged
157 alpha-Chlorotoluene	1.51497	1.83477	0.010	-21.10900	30.00000	Averaged
159 1,2-Dichlorobenzene	1.10211	1.11582	0.010	-1.24468	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.82455	0.76183	0.010	7.60676	30.00000	Averaged
164 Hexachlorobutadiene	0.56505	0.56335	0.010	0.30071	30.00000	Averaged
142 Propylbenzene	2.27721	2.35962	0.010	-3.61884	30.00000	Averaged
136 Cumene	1.84275	1.96540	0.010	-6.65533	30.00000	Averaged
165 Naphthalene	2.57606	2.63225	0.010	-2.18116	30.00000	Averaged
17 Isopentane	3.34270	3.46261	0.010	-3.58741	30.00000	Averaged
11 Butane	0.56374	0.57074	0.010	-1.24238	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 14-SEP-2007 09:18
Lab File ID: 5091403.d Init. Cal. Date(s): 12-SEP-2007 12-SEP-2007
Analysis Type: AIR Init. Cal. Times: 09:48 12:39
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-14sep.b/t14q912a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.60307	0.60911	0.010	-1.00150	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091403.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 14-SEP-2007 09:18
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1443-294
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	452367	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	348174			46.97- 106.97	76.97
8.059	8.059 (1.000)	49	1032823			198.32- 258.32	228.32
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1787738	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	312898			0.00- 47.50	17.50
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1404975	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	829212			0.00- 30.00	59.02
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	684841	25.0000	25.671	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	371962			0.00- 30.00	54.31
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1578830	25.0000	24.657	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	165490			0.00- 30.00	10.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	1069036			0.00- 30.00	67.71
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	697168	25.0000	24.799	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1151593			135.18- 195.18	165.18
16.575	16.575 (1.105)	176	676147			66.98- 126.98	96.98
6 Propylene					CAS #: 115-07-1		
2.308	2.308 (0.286)	41	1701199	50.0000	51.238	80.00- 120.00	100.00
2.308	2.308 (0.286)	42	1158534			0.00- 30.00	68.10
2.308	2.308 (0.286)	39	1110139			0.00- 30.00	65.26
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.293)	85	2541169	50.0000	49.751	80.00- 120.00	100.00
2.363	2.363 (0.293)	87	817221			0.00- 30.00	32.16
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	2558470	50.0000	51.302	80.00- 120.00	100.00
2.502	2.502 (0.310)	137	824609			2.23- 62.23	32.23
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	2255136	50.0000	52.180	80.00- 120.00	100.00
2.640	2.640 (0.328)	52	667901			0.00- 30.00	29.62
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.348)	62	2028887	50.0000	54.466	80.00- 120.00	100.00
2.806	2.806 (0.348)	64	610972			0.00- 30.00	30.11
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	1917344	50.0000	54.602	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	2198293			0.00- 30.00	114.65
15 Bromomethane					CAS #: 74-83-9		
3.331	3.331 (0.413)	94	1317121	50.0000	51.295	80.00- 120.00	100.00
3.331	3.331 (0.413)	96	1242414			64.33- 124.33	94.33
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	1028640	50.0000	51.633	80.00- 120.00	100.00
3.442	3.442 (0.427)	49	289012			0.00- 30.00	28.10
3.442	3.442 (0.427)	66	298201			0.00- 30.00	28.99
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	3002670	50.0000	52.502	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1950021			34.94- 94.94	64.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	776323	50.0000	51.659	80.00- 120.00	100.00
4.133	4.133 (0.513)	43	135870			0.00- 30.00	17.50
4.105	4.105 (0.509)	46	328722			0.00- 30.00	42.34
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	1928507	50.0000	51.873	80.00- 120.00	100.00
4.548	4.548 (0.564)	153	1206562			32.56- 92.56	62.56
4.548	4.548 (0.564)	101	2578688			103.71- 163.71	133.71
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.571)	61	2534590	50.0000	52.633	80.00- 120.00	100.00
4.603	4.603 (0.571)	96	1430963			26.46- 86.46	56.46
4.603	4.603 (0.571)	98	894499			5.29- 65.29	35.29
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	996123	50.0000	53.201	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	2990951			0.00- 30.00	300.26
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	3693642	50.0000	51.998	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	743104			0.00- 30.00	20.12
4.935	4.935 (0.612)	59	131345			0.00- 30.00	3.56
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	4247360	50.0000	51.081	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	688544	50.0000	50.276	80.00- 120.00	100.00
5.211	5.211 (0.647)	41	2860763			0.00- 30.00	415.48
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	2220793	50.0000	51.442	80.00- 120.00	100.00
5.460	5.460 (0.678)	84	1203833			24.21- 84.21	54.21
5.460	5.460 (0.678)	51	677465			0.00- 30.00	30.51
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	967327	50.0000	37.357	80.00- 120.00	100.00
5.792	5.792 (0.719)	57	326547			3.76- 63.76	33.76
5.792	5.792 (0.719)	41	351138			0.00- 30.00	36.30
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	1541972	50.0000	48.669	80.00- 120.00	100.00
5.847	5.847 (0.726)	61	2563409			136.24- 196.24	166.24
5.847	5.847 (0.726)	98	980620			0.00- 30.00	63.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	3294735	50.0000	52.800	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	2301812			0.00- 30.00	69.86
6.179	6.179 (0.767)	86	439910			0.00- 30.00	13.35
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	2816755	50.0000	52.010	80.00- 120.00	100.00
6.621	6.621 (0.822)	65	844201			0.00- 59.97	29.97
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	636790	50.0000	50.875	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	4013414			600.26- 660.26	630.26
7.672	7.672 (0.952)	57	283208			0.00- 30.00	44.47
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	2051531	50.0000	50.308	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	1364087			36.49- 96.49	66.49
7.644	7.644 (0.949)	98	884748			13.13- 73.13	43.13
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	2469540	50.0000	48.289	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	601662			0.00- 54.36	24.36
8.059	8.059 (1.000)	72	623713			0.00- 30.00	25.26
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2272914	50.0000	48.665	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1483975			35.29- 95.29	65.29
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2279989	50.0000	52.922	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1482867			35.04- 95.04	65.04
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	1782010	50.0000	50.807	80.00- 120.00	100.00
8.419	8.419 (1.045)	56	3040034			140.60- 200.60	170.60
8.419	8.419 (1.045)	41	1726685			66.90- 126.90	96.90
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	335110	50.0000	51.237	80.00- 120.00	100.00
6.677	6.677 (0.828)	43	4772302			0.00- 30.00	1424.10
6.677	6.677 (0.828)	42	352392			0.00- 30.00	105.16
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.079)	119	1930676	50.0000	52.712	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1973569			72.22- 132.22	102.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	8830492	50.0000	53.364	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2879327			0.00- 30.00	32.61
9.110	9.110 (1.130)	41	2318589			0.00- 30.00	26.26
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	3729644	50.0000	47.055	80.00- 120.00	100.00
9.110	9.110 (0.917)	77	863993			0.00- 30.00	23.17
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.933)	62	1838413	50.0000	51.806	80.00- 120.00	100.00
9.276	9.276 (0.933)	64	582357			0.00- 30.00	31.68
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	444213	50.0000	48.638	80.00- 120.00	100.00
9.497	9.497 (0.955)	43	3766489			0.00- 30.00	847.90
9.497	9.497 (0.955)	71	1330126			0.00- 30.00	299.43
93 Trichloroethene					CAS #: 79-01-6		
10.354	10.354 (1.042)	95	1490302	50.0000	49.836	80.00- 120.00	100.00
10.354	10.354 (1.042)	130	1423305			65.50- 125.50	95.50
10.354	10.354 (1.042)	97	964643			34.73- 94.73	64.73
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	1448161	50.0000	48.181	80.00- 120.00	100.00
10.852	10.852 (1.092)	62	1023726			40.69- 100.69	70.69
10.852	10.852 (1.092)	41	1057596			43.03- 103.03	73.03
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	1069222	50.0000	47.684	80.00- 120.00	100.00
11.073	11.073 (1.114)	58	1044519			67.69- 127.69	97.69
11.073	11.073 (1.114)	57	314513			0.00- 30.00	29.42
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	2158139	50.0000	52.080	80.00- 120.00	100.00
11.405	11.405 (1.147)	85	1365459			33.27- 93.27	63.27
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	1581839	50.0000	52.256	80.00- 120.00	100.00
12.317	12.317 (1.239)	77	516554			2.66- 62.66	32.66
12.317	12.317 (1.239)	39	1217591			46.97- 106.97	76.97
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.270)	58	1437786	50.0000	53.609	80.00- 120.00	100.00
12.594	12.594 (1.267)	43	4197056			0.00- 30.00	291.91
12.621	12.621 (1.270)	85	472754			0.00- 30.00	32.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	3783619	50.0000	51.553	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	2174013			27.46- 87.46	57.46
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1629415	50.0000	55.696	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	522670			2.08- 62.08	32.08
13.368	13.368 (0.891)	39	1163601			41.41- 101.41	71.41
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1253075	50.0000	50.802	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	782843			32.47- 92.47	62.47
13.644	13.644 (0.910)	83	1034789			52.58- 112.58	82.58
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1476601	50.0000	51.309	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	1162147			48.70- 108.70	78.70
13.700	13.700 (0.913)	131	1148160			47.76- 107.76	77.76
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	2114761	50.0000	52.738	80.00- 120.00	100.00
14.031	14.031 (0.935)	43	4379784			177.11- 237.11	207.11
14.031	14.031 (0.935)	100	317339			0.00- 30.00	15.01
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1876153	50.0000	54.663	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1474371			0.00- 30.00	78.58
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1907546	50.0000	52.898	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1806649			64.71- 124.71	94.71
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	2854398	50.0000	51.303	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	902785			1.63- 61.63	31.63
15.027	15.027 (1.002)	77	1765437			31.85- 91.85	61.85
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1574495	50.0000	50.041	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	5268944			0.00- 30.00	334.64
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1969042	50.0000	50.650	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	4229459			0.00- 30.00	214.80
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1833020	50.0000	54.944	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	4137813			195.74- 255.74	225.74
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2986661	50.0000	54.605	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	1561423			22.28- 82.28	52.28
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1745309	50.0000	53.784	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	908307			22.04- 82.04	52.04
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2664352	50.0000	52.097	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1703671			33.94- 93.94	63.94
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5541401	50.0000	52.756	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1620891			0.00- 59.25	29.25
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	5087914	50.0000	52.972	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2409729			0.00- 30.00	47.36
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4621332	50.0000	54.875	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	2127646			16.04- 76.04	46.04
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	3103285	50.0000	51.862	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1966107			0.00- 30.00	63.36
17.764	17.764 (1.184)	111	1271990			0.00- 30.00	40.99
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3431584	50.0000	50.715	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2140942			0.00- 30.00	62.39
17.847	17.847 (1.190)	111	1521507			0.00- 30.00	44.34
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	5155604	50.0000	60.554	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	932600			0.00- 30.00	18.09
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	3135407	50.0000	50.622	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1978150			33.09- 93.09	63.09
18.206	18.206 (1.214)	111	1307851			11.71- 71.71	41.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	2140710	50.0000	46.197	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	2052737			65.89- 125.89	95.89
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1582982	50.0000	49.850	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	982809			32.09- 92.09	62.09
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6630410	50.0000	51.809	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	1449859			0.00- 30.00	21.87
16.852	16.852 (1.123)	105	223691			0.00- 30.00	3.37
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5522663	50.0000	53.328	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1466701			0.00- 30.00	26.56
16.326	16.326 (1.088)	51	849613			0.00- 30.00	15.38
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	7396483	50.0000	51.090	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	916552			0.00- 30.00	12.39
17 Isopentane					CAS #: 78-78-4		
3.442	3.442 (0.427)	43	3132742	50.0000	51.794	80.00- 120.00	100.00
3.442	3.442 (0.427)	57	1962731			0.00- 30.00	62.65
3.442	3.442 (0.427)	72	173896			0.00- 30.00	5.55
11 Butane					CAS #: 106-97-8		
2.723	2.723 (0.338)	58	516369	50.0000	50.621	80.00- 120.00	100.00
2.723	2.723 (0.338)	43	3950579			0.00- 30.00	765.07
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	2177874	50.0000	50.501	80.00- 120.00	100.00
10.575	10.575 (1.064)	98	1110640			0.00- 30.00	51.00
10.575	10.575 (1.064)	55	2540563			0.00- 30.00	116.65

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091403.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	452367	0.00
92 1,4-Difluorobenze	1787738	1072643	2502833	1787738	0.00
125 Chlorobenzene-d5	1404975	842985	1966965	1404975	0.00

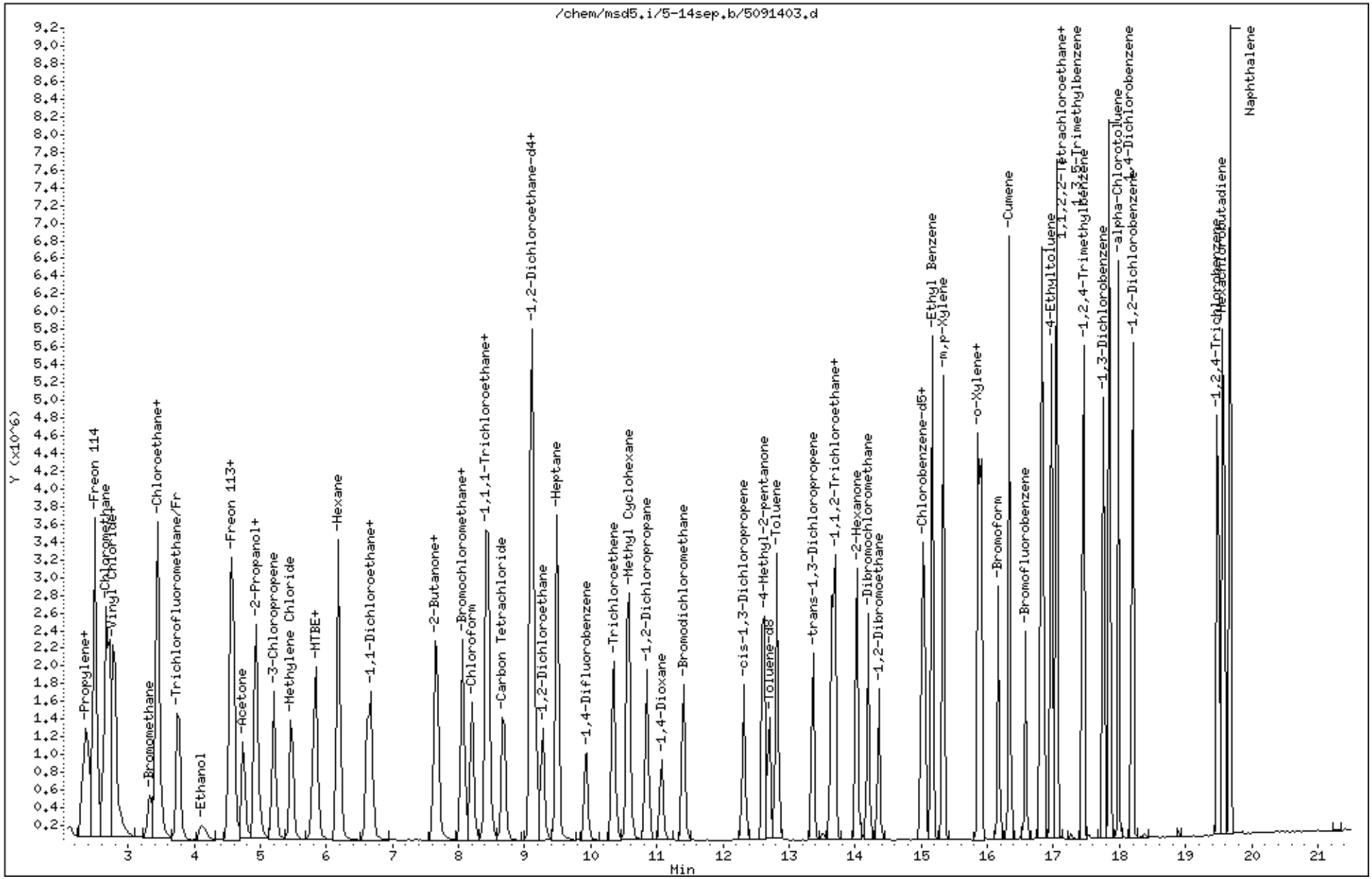
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-14sep.b/5091403.d
Date : 14-SEP-2007 09:18
Client ID: CCV-1
Sample Info: 50mL #1443-294

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



0189

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0709128-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 09:46 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	100
Vinyl Chloride	106
Bromomethane	106
Chloroethane	103
Freon 11	104
1,1-Dichloroethene	117
Freon 113	114
Methylene Chloride	111
1,1-Dichloroethane	107
cis-1,2-Dichloroethene	101
Chloroform	102
1,1,1-Trichloroethane	109
Carbon Tetrachloride	108
Benzene	95
1,2-Dichloroethane	106
Trichloroethene	104
1,2-Dichloropropane	100
cis-1,3-Dichloropropene	108
Toluene	108
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	99
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	100
Chlorobenzene	100
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	106
Styrene	104
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	96
1,3-Butadiene	107
Hexane	105
Cyclohexane	107

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0709128-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/07 09:46 AM**	

Compound	%Recovery
Heptane	98
Bromodichloromethane	108
Dibromochloromethane	105
Cumene	106
Propylbenzene	104
Chloromethane	103
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	92
Acetone	100
Carbon Disulfide	101
2-Propanol	102
trans-1,2-Dichloroethene	98
2-Butanone (Methyl Ethyl Ketone)	108
Tetrahydrofuran	95
1,4-Dioxane	76
4-Methyl-2-pentanone	106
2-Hexanone	87
Bromoform	97
4-Ethyltoluene	104
Ethanol	107
Methyl tert-butyl ether	81
3-Chloropropene	102
2,2,4-Trimethylpentane	108
Naphthalene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	97	70-130

Report Date: 14-Sep-2007 10:00

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	52.693	105.39	70-130
9 Freon 114	50.000	50.037	100.07	70-130
10 Chloromethane	50.000	51.567	103.13	70-130
13 Vinyl Chloride	50.000	53.086	106.17	70-130
12 1,3-Butadiene	50.000	53.574	107.15	60-140
15 Bromomethane	50.000	53.102	106.20	70-130
19 Chloroethane	50.000	51.310	102.62	70-130
20 Trichlorofluoromet	50.000	51.872	103.74	70-130
26 Ethanol	50.000	53.354	106.71	60-140
30 Freon 113	50.000	56.917	113.83	70-130
31 1,1-Dichloroethene	50.000	58.547	117.09	70-130
35 Carbon Disulfide	50.000	50.352	100.70	60-140
32 Acetone	50.000	50.119	100.24	60-140
36 2-Propanol	50.000	51.251	102.50	60-140
38 3-Chloropropene	50.000	51.294	102.59	60-140
43 Methylene Chloride	50.000	55.440	110.88	70-130
46 MTBE	50.000	40.626	81.25	60-140
47 trans-1,2-Dichloro	50.000	48.922	97.84	60-140
51 Hexane	50.000	52.403	104.81	60-140
55 1,1-Dichloroethane	50.000	53.390	106.78	70-130
66 cis-1,2-Dichloroet	50.000	50.737	101.47	70-130
67 2-Butanone	50.000	53.811	107.62	60-140
70 Tetrahydrofuran	50.000	47.594	95.19	60-140
72 Chloroform	50.000	50.908	101.82	70-130
74 Cyclohexane	50.000	53.595	107.19	60-140
75 1,1,1-Trichloroeth	50.000	54.613	109.23	70-130
56 Vinyl Acetate	50.000	56.029	112.06	60-140
77 Carbon Tetrachlori	50.000	53.898	107.80	70-130
80 2,2,4-Trimethylpen	50.000	53.897	107.79	60-140
81 Benzene	50.000	47.539	95.08	70-130
85 1,2-Dichloroethane	50.000	53.209	106.42	70-130
90 Heptane	50.000	49.062	98.12	60-140
93 Trichloroethene	50.000	51.852	103.70	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	49.966	99.93	70-130
99 1,4-Dioxane	50.000	38.100	76.20	60-140
100 Bromodichlorometha	50.000	53.810	107.62	60-140
103 cis-1,3-Dichloropr	50.000	53.888	107.78	70-130
106 4-Methyl-2-pentano	50.000	53.094	106.19	60-140
108 Toluene	50.000	54.162	108.33	70-130
113 trans-1,3-Dichloro	50.000	53.883	107.77	70-130
114 1,1,2-Trichloroeth	50.000	49.513	99.03	70-130
116 Tetrachloroethene	50.000	49.936	99.87	70-130
119 2-Hexanone	50.000	43.731	87.46	60-140
120 Dibromochlorometha	50.000	52.300	104.60	60-140
122 1,2-Dibromoethane	50.000	49.837	99.67	70-130
126 Chlorobenzene	50.000	50.022	100.04	70-130
128 Ethyl Benzene	50.000	48.708	97.42	70-130
130 m,p-Xylene	50.000	48.815	97.63	70-130
132 o-Xylene	50.000	53.141	106.28	70-130
133 Styrene	50.000	52.047	104.09	70-130
134 Bromoform	50.000	48.642	97.28	60-140
136 Cumene	50.000	53.187	106.37	60-140
141 1,1,2,2-Tetrachlor	50.000	49.524	99.05	70-130
142 Propylbenzene	50.000	51.898	103.80	60-140
144 4-Ethyltoluene	50.000	51.997	103.99	60-140
147 1,3,5-Trimethylben	50.000	52.146	104.29	70-130
152 1,2,4-Trimethylben	50.000	51.140	102.28	70-130
155 1,3-Dichlorobenzen	50.000	47.615	95.23	70-130
156 1,4-Dichlorobenzen	50.000	49.757	99.51	70-130
157 alpha-Chlorotoluen	50.000	61.377	122.75	70-130
159 1,2-Dichlorobenzen	50.000	48.110	96.22	70-130
163 1,2,4-Trichloroben	50.000	43.285	86.57	70-130
164 Hexachlorobutadien	50.000	46.024	92.05	70-130
6 Propylene	50.000	54.185	108.37	70-130
165 Naphthalene	50.000	48.944	97.89	60-140
11 Butane	50.000	50.510	101.02	70-130
17 Isopentane	50.000	50.461	100.92	70-130
94 Methyl Cyclohexane	50.000	52.166	104.33	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	26.068	104.27	70-130
$ 107 Toluene-d8	25.000	25.369	101.48	70-130
$ 138 Bromofluorobenzene	25.000	24.224	96.90	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14sep.b/5091404.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 14-SEP-2007 09:46
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1443-295
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-14sep.b/t14q912a.m
Meth Date : 14-Sep-2007 09:38 ctaylor Quant Type: ISTD
Cal Date : 12-SEP-2007 12:39 Cal File: 5091211.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	365284	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	299880			46.97- 106.97	82.10
8.059	8.059 (1.000)	49	855450			198.32- 258.32	234.19
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1438500	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	249181			0.00- 47.50	17.32
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1185551	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	677021			0.00- 30.00	57.11
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	561561	26.0680	26.068	80.00- 120.00	100.00
9.110	9.137 (1.130)	67	307016			0.00- 30.00	54.67
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1307101	25.3691	25.369	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	134094			0.00- 30.00	10.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	853382			0.00- 30.00	65.29
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	574657	24.2244	24.224	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	952888			135.18- 195.18	165.82
16.575	16.575 (1.105)	176	552594			66.98- 126.98	96.16
6 Propylene						CAS #: 115-07-1	
2.280	2.308 (0.283)	41	1452730	54.1852	54.185	80.00- 120.00	100.00
2.280	2.308 (0.283)	42	956593			0.00- 30.00	65.85
2.280	2.308 (0.283)	39	966297			0.00- 30.00	66.52
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.336	2.363 (0.290)	85	2173324	52.6935	52.693	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	694425			0.00- 30.00	31.95
9 Freon 114						CAS #: 76-14-2	
2.474	2.502 (0.307)	135	2015007	50.0368	50.037	80.00- 120.00	100.00
2.474	2.502 (0.307)	137	648877			2.23- 62.23	32.20
10 Chloromethane						CAS #: 74-87-3	
2.612	2.640 (0.324)	50	1799645	51.5675	51.567	80.00- 120.00	100.00
2.612	2.640 (0.324)	52	537977			0.00- 30.00	29.89
13 Vinyl Chloride						CAS #: 75-01-4	
2.778	2.806 (0.345)	62	1596779	53.0855	53.086	80.00- 120.00	100.00
2.778	2.806 (0.345)	64	500203			0.00- 30.00	31.33
12 1,3-Butadiene						CAS #: 106-99-0	
2.750	2.778 (0.341)	54	1519108	53.5742	53.574	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	1477920			0.00- 30.00	97.29
15 Bromomethane						CAS #: 74-83-9	
3.276	3.331 (0.406)	94	1101046	53.1024	53.102	80.00- 120.00	100.00
3.276	3.331 (0.406)	96	1032338			64.33- 124.33	93.76
19 Chloroethane						CAS #: 75-00-3	
3.414	3.442 (0.424)	64	825433	51.3103	51.310	80.00- 120.00	100.00
3.414	3.442 (0.424)	49	240999			0.00- 30.00	29.20
3.414	3.442 (0.424)	66	230466			0.00- 30.00	27.92
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.718	3.746 (0.461)	101	2395551	51.8723	51.872	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1527826			34.94- 94.94	63.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.105 (0.506)	45	647441	53.3536	53.354	80.00- 120.00	100.00
4.078	4.133 (0.506)	43	108639			0.00- 30.00	16.78
4.078	4.105 (0.506)	46	262015			0.00- 30.00	40.47
30 Freon 113					CAS #: 76-13-1		
4.520	4.548 (0.561)	151	1708682	56.9171	56.917	80.00- 120.00	100.00
4.520	4.548 (0.561)	153	1095693			32.56- 92.56	64.13
4.520	4.548 (0.561)	101	2303514			103.71- 163.71	134.81
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.603 (0.568)	61	2276630	58.5469	58.547	80.00- 120.00	100.00
4.575	4.603 (0.568)	96	1272667			26.46- 86.46	55.90
4.575	4.603 (0.568)	98	812634			5.29- 65.29	35.69
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	757766	50.1194	50.119	80.00- 120.00	100.00
4.713	4.741 (0.585)	43	2437956			0.00- 30.00	321.73
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2939763	51.2513	51.251	80.00- 120.00	100.00
4.907	4.935 (0.609)	43	608611			0.00- 30.00	20.70
4.935	4.935 (0.612)	59	104265			0.00- 30.00	3.55
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	3380795	50.3521	50.352	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.211 (0.643)	76	567247	51.2936	51.294	80.00- 120.00	100.00
5.184	5.211 (0.643)	41	2395386			0.00- 30.00	422.28
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	1932636	55.4400	55.440	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	1050013			24.21- 84.21	54.33
5.432	5.460 (0.674)	51	590158			0.00- 30.00	30.54
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	849477	40.6262	40.626	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	270749			3.76- 63.76	31.87
5.764	5.792 (0.715)	41	300557			0.00- 30.00	35.38
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.847 (0.722)	96	1251606	48.9220	48.922	80.00- 120.00	100.00
5.819	5.847 (0.722)	61	2044475			136.24- 196.24	163.35
5.819	5.847 (0.722)	98	787268			0.00- 30.00	62.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.179 (0.763)	57	2640504	52.4031	52.403	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	1917621			0.00- 30.00	72.62
6.179	6.179 (0.767)	86	352663			0.00- 30.00	13.36
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.621 (0.818)	63	2334844	53.3901	53.390	80.00- 120.00	100.00
6.594	6.621 (0.818)	65	694536			0.00- 59.97	29.75
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	543883	53.8113	53.811	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	3209274			600.26- 660.26	590.07
7.672	7.672 (0.952)	57	225962			0.00- 30.00	41.55
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.644 (0.945)	61	1670723	50.7370	50.737	80.00- 120.00	100.00
7.617	7.644 (0.945)	96	1130986			36.49- 96.49	67.69
7.617	7.644 (0.945)	98	726885			13.13- 73.13	43.51
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.059 (0.997)	42	1965433	47.5940	47.594	80.00- 120.00	100.00
8.031	8.059 (0.997)	71	460124			0.00- 54.36	23.41
8.031	8.059 (0.997)	72	496855			0.00- 30.00	25.28
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1919925	50.9075	50.908	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1257986			35.29- 95.29	65.52
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1899883	54.6126	54.613	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1187309			35.04- 95.04	62.49
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.419 (1.045)	84	1517907	53.5946	53.595	80.00- 120.00	100.00
8.418	8.419 (1.045)	56	2493822			140.60- 200.60	164.29
8.418	8.419 (1.045)	41	1376275			66.90- 126.90	90.67
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	295905	56.0289	56.029	80.00- 120.00	100.00
6.649	6.677 (0.825)	43	3928938			0.00- 30.00	1327.77
6.649	6.677 (0.825)	42	287655			0.00- 30.00	97.21
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.695 (1.075)	119	1594080	53.8975	53.898	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1675142			72.22- 132.22	105.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7201762	53.8968	53.897	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2339386			0.00- 30.00	32.48
9.110	9.110 (1.130)	41	1921757			0.00- 30.00	26.68
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.916)	78	3031891	47.5389	47.539	80.00- 120.00	100.00
9.082	9.110 (0.916)	77	699502			0.00- 30.00	23.07
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1519313	53.2087	53.209	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	480940			0.00- 30.00	31.66
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	360553	49.0622	49.062	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	3015644			0.00- 30.00	836.39
9.497	9.497 (0.958)	71	1087126			0.00- 30.00	301.52
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.354 (1.042)	95	1247684	51.8519	51.852	80.00- 120.00	100.00
10.326	10.354 (1.042)	130	1148905			65.50- 125.50	92.08
10.326	10.354 (1.042)	97	792291			34.73- 94.73	63.50
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1208412	49.9657	49.966	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	837989			40.69- 100.69	69.35
10.824	10.852 (1.092)	41	866046			43.03- 103.03	71.67
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	687418	38.0998	38.100	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	670919			67.69- 127.69	97.60
11.073	11.073 (1.117)	57	212633			0.00- 30.00	30.93
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1794246	53.8102	53.810	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1153963			33.27- 93.27	64.31
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1312565	53.8881	53.888	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	410097			2.66- 62.66	31.24
12.317	12.317 (1.243)	39	1003240			46.97- 106.97	76.43
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.621 (1.271)	58	1145786	53.0939	53.094	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3210284			0.00- 30.00	280.18
12.594	12.621 (1.271)	85	351771			0.00- 30.00	30.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3198580	54.1626	54.162	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1925337			27.46- 87.46	60.19
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1330191	53.8832	53.883	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	427199			2.08- 62.08	32.12
13.368	13.368 (0.891)	39	958697			41.41- 101.41	72.07
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1030534	49.5127	49.513	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	636270			32.47- 92.47	61.74
13.644	13.644 (0.910)	83	863547			52.58- 112.58	83.80
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1212631	49.9356	49.936	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	998928			48.70- 108.70	82.38
13.700	13.700 (0.913)	131	948578			47.76- 107.76	78.22
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.031 (0.934)	58	1479720	43.7310	43.731	80.00- 120.00	100.00
14.004	14.031 (0.934)	43	3027640			177.11- 237.11	204.61
14.031	14.031 (0.935)	100	221554			0.00- 30.00	14.97
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1514713	52.3003	52.300	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1192104			0.00- 30.00	78.70
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1516491	49.8373	49.837	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1441558			64.71- 124.71	95.06
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	2348438	50.0218	50.022	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	759569			1.63- 61.63	32.34
15.027	15.027 (1.002)	77	1482309			31.85- 91.85	63.12
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1293215	48.7084	48.708	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4327087			0.00- 30.00	334.60
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1601304	48.8148	48.815	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3556245			0.00- 30.00	222.08
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1496001	53.1411	53.141	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3410514			195.74- 255.74	227.98
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	2402135	52.0467	52.047	80.00- 120.00	100.00
15.911	15.912 (1.061)	78	1244074			22.28- 82.28	51.79
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1331936	48.6423	48.642	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	674079			22.04- 82.04	50.61
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2137201	49.5241	49.524	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1414420			33.94- 93.94	66.18
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4608700	51.9971	51.997	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1339048			0.00- 59.25	29.05
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4226321	52.1457	52.146	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1985790			0.00- 30.00	46.99
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3634162	51.1400	51.140	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1688427			16.04- 76.04	46.46
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2404166	47.6146	47.615	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1565732			0.00- 30.00	65.13
17.764	17.764 (1.184)	111	1009984			0.00- 30.00	42.01
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2840981	49.7574	49.757	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1789131			0.00- 30.00	62.98
17.847	17.847 (1.190)	111	1237923			0.00- 30.00	43.57
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4409514	61.3770	61.377	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	835759			0.00- 30.00	18.95
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2514433	48.1101	48.110	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1586373			33.09- 93.09	63.09
18.206	18.206 (1.214)	111	1021159			11.71- 71.71	40.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1692525	43.2848	43.285	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1585094			65.89- 125.89	93.65
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1233237	46.0236	46.024	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	772670			32.09- 92.09	62.65
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5604413	51.8975	51.898	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	1230178			0.00- 30.00	21.95
16.824	16.852 (1.122)	105	187699			0.00- 30.00	3.35
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4647887	53.1873	53.187	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1247817			0.00- 30.00	26.85
16.326	16.326 (1.088)	51	721663			0.00- 30.00	15.53
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5979118	48.9442	48.944	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	743533			0.00- 30.00	12.44
17 Isopentane					CAS #: 78-78-4		
3.414	3.442 (0.424)	43	2464578	50.4609	50.461	80.00- 120.00	100.00
3.414	3.442 (0.424)	57	1507361			0.00- 30.00	61.16
3.414	3.442 (0.424)	72	141809			0.00- 30.00	5.75
11 Butane					CAS #: 106-97-8		
2.695	2.723 (0.334)	58	416048	50.5098	50.510	80.00- 120.00	100.00
2.695	2.723 (0.334)	43	3176294			0.00- 30.00	763.44
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.575 (1.064)	83	1810198	52.1657	52.166	80.00- 120.00	100.00
10.547	10.575 (1.064)	98	889523			0.00- 30.00	49.14
10.547	10.575 (1.064)	55	2131989			0.00- 30.00	117.78

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091404.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-14sep.b/t14q912a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 14-SEP-2007
Calibration Time: 09:18
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	452367	271420	633314	365284	-19.25
92 1,4-Difluorobenze	1787738	1072643	2502833	1438500	-19.54
125 Chlorobenzene-d5	1404975	842985	1966965	1185551	-15.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

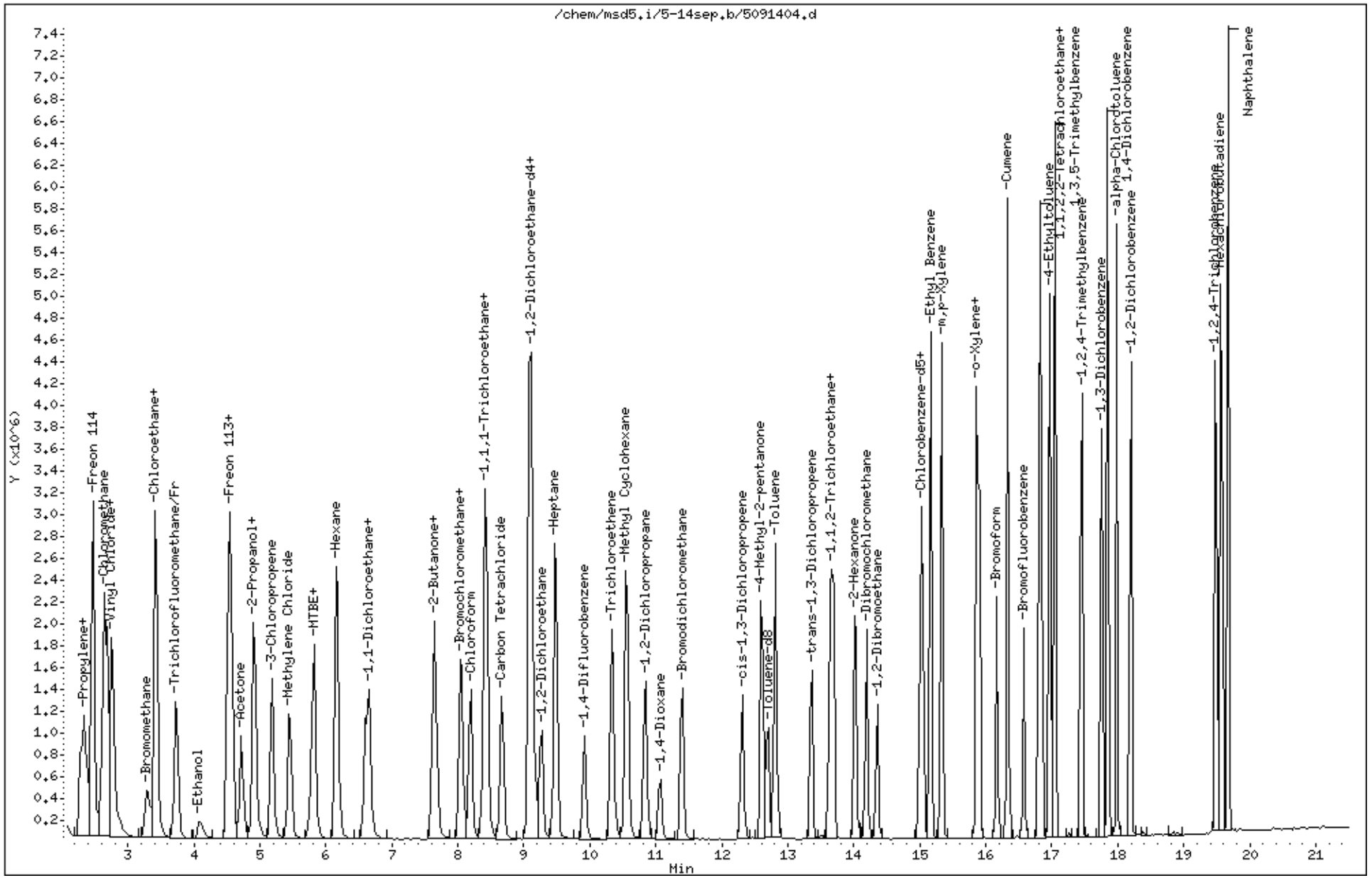
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0203

Data File: /chem/msd5.i/5-14sep.b/5091404.d
Date : 14-SEP-2007 09:46
Client ID: LCS-1
Sample Info: 50mL #1443-295

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



@ Air Toxics Ltd. **MSD-5** Logbook #: 1586

0204

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.45
75	30.0 – 60.0% of mass 95	47.50
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.72
173	Less than 2.0% of mass 174	(0.91)[1]
174	Greater than 50.0% of mass 95	58.85
175	5.0 – 9.0% of mass 174	(6.30)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.04)[1]
177	5.0 – 9.0% of mass 176	(5.91)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 9-14-07
BFB Injection Time: 0849
BFB File ID: 5091402
Tekmar Purge Flow: 12.7 mL/min
Vacuum: 5. 6.38x10-6

IS/S Std.#: 1487-385	Exp. Date: 12/10/07	
BCM	452367	
1,4-DFB	1787738	
CB-d5	1404975	

Verified CCV IS vs ICAL mid-point (- 40%D) CT initials

Verify 176/174 m/z Ratio: 43316/46566 4x100 = 93.03

NOAH Cart #: 10 **File #:** 091108

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 684841\ )}{(\ 452367\ )} \times \frac{(\ 25\ )}{(\ 1.47435\ )} = 25.671$

Reported Result 25.671

File ID:	5091403
Compound:	1,2-DCA-d4
Initials:	CT

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	5091401	BFB Tune Check	843-298	50ng	2mL	1.00	9-14-07	0831	CT	
2			CCV-1 (200ppbv)	1443-294		50mL					
3			LCS-1 (200ppbv)	1443-295		50mL				9-14-07 CT	
4		5091402	BFB Tune Check	843-298	50ng	50mL	1.00	9-14-07	0849	CT	
5		03	CCV-1 (200ppbv)	1443-294	50ppbv	50mL			0918	CT	
6		04	LCS-1 (200ppbv)	1443-295	50ppbv	50mL			0946.	CT	
7		05	Lab Blank	12941	Humid	200mL			1043	CT	Can not IS leg 7
8	✓	06	0709128-01A	11308	6.0"Hg-25psi		1.68		1153	CT	
9	✓	07	-01AA	11308					1225	CT	
10	✓	08	-02A	05698					1257	CT	

11	✓	5091409	0709128-03A	35143	0.5"Hg→5psi	200mL	1.36	9-14-07	1329	ss	
12	✓	10	-04A	34387	16psi→4.6psi	↓	1.00	↓	1402	ss	TB
13		11	0709115-01A	31429	5.0"Hg→5psi	200mL	1.61				
14		12	-02A	34257	↓	↓	↓				
15		13	-03A	4385	↓	↓	↓				
16		14	-04A	34484	28.5"Hg→5psi	↓	1.00	↓			TB
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

0205

Comments:

Signature

9/14/07
Date

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-12sep.b/5091204.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 12-SEP-2007 09:14
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-12sep.b/bfb30.m
Meth Date : 12-Sep-2007 09:06 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.803	3.900	-0.097	95	2214058			100.00- 100.00	100.00
3.803	3.900	-0.097	50	605638			15.00- 40.00	27.35
3.803	3.900	-0.097	75	1030217			30.00- 60.00	46.53
3.803	3.900	-0.097	96	145562			5.00- 9.00	6.57
3.803	3.900	-0.097	173	8333			0.00- 2.00	0.65
3.803	3.900	-0.097	174	1277561			50.00- 100.00	57.70
3.803	3.900	-0.097	175	92640			5.00- 9.00	7.25
3.803	3.900	-0.097	176	1244565			95.00- 101.00	97.42
3.803	3.900	-0.097	177	77012			5.00- 9.00	6.19

Data File: /var/chem/msd5.i/5-12sep.b/5091204.d

Date : 12-SEP-2007 09:14

Client ID: BFB

Instrument: msd5.i

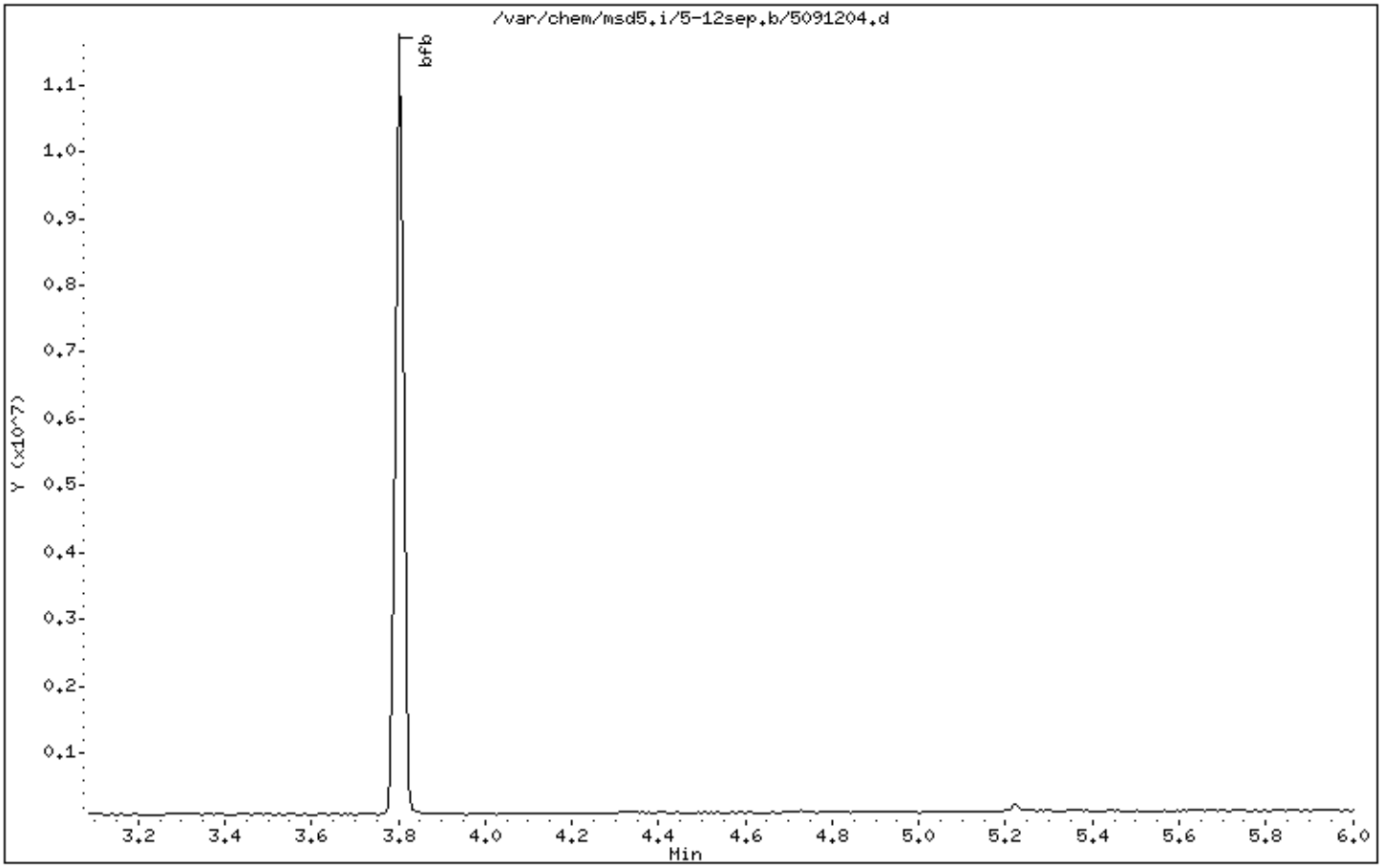
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-12sep.b/5091204.d

Date : 12-SEP-2007 09:14

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

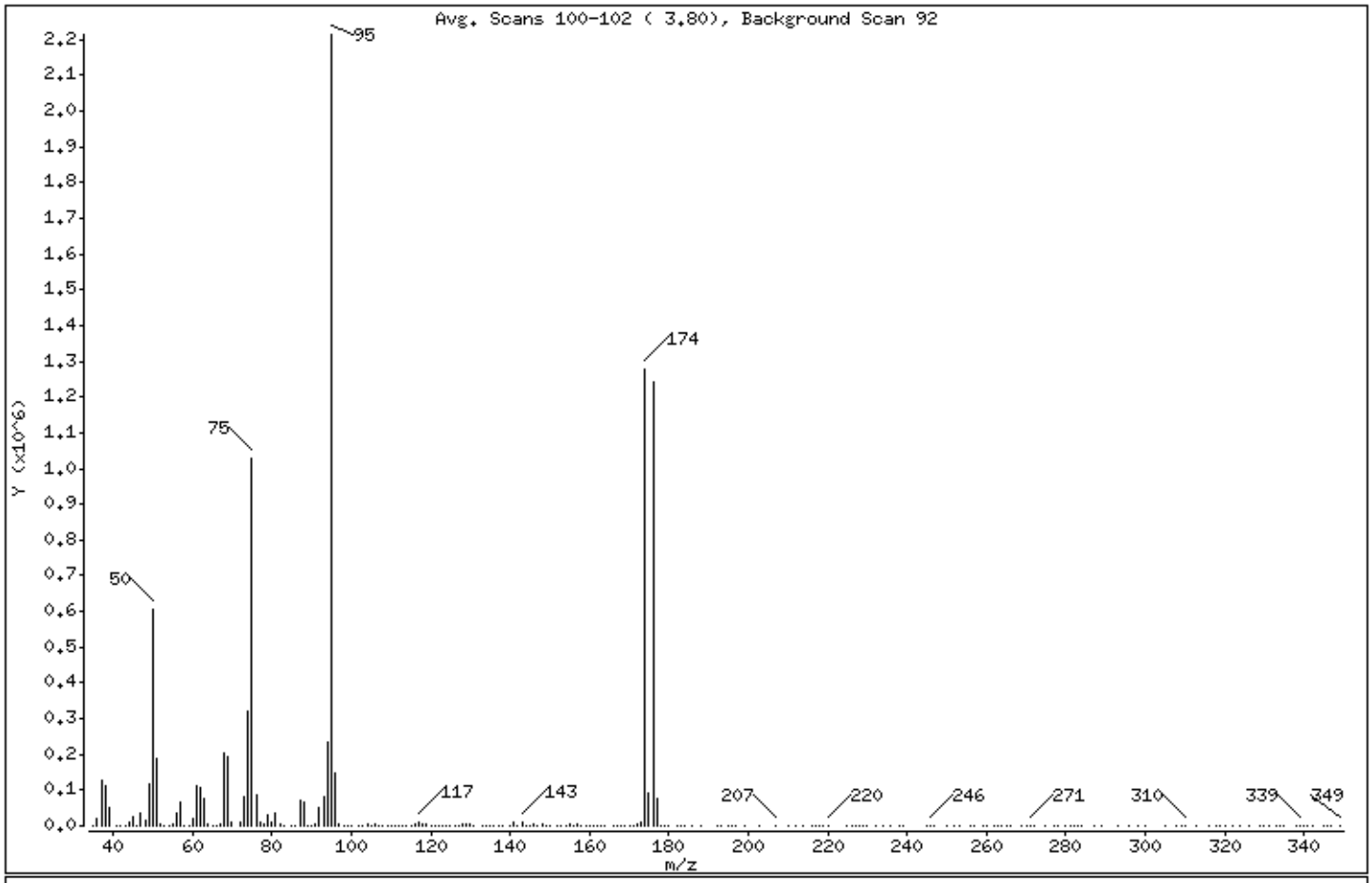
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.35
75	30.00 - 60.00% of mass 95	46.53
96	5.00 - 9.00% of mass 95	6.57
173	Less than 2.00% of mass 174	0.38 (0.65)
174	50.00 - 100.00% of mass 95	57.70
175	5.00 - 9.00% of mass 174	4.18 (7.25)
176	95.00 - 101.00% of mass 174	56.21 (97.42)
177	5.00 - 9.00% of mass 176	3.48 (6.19)

Date : 12-SEP-2007 09:14

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5091204.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	934	96.00	145536	158.00	721	252.00	477
36.00	20424	97.00	4308	159.00	1761	253.00	234
37.00	127768	98.00	496	160.00	224	256.00	140
38.00	111344	99.00	100	161.00	1121	257.00	164
39.00	50528	100.00	347	162.00	372	259.00	128
41.00	257	102.00	58	163.00	191	260.00	153
42.00	932	103.00	440	164.00	129	262.00	198
43.00	208	104.00	6388	166.00	21	263.00	171
44.00	12426	105.00	1109	167.00	311	264.00	65
45.00	25168	106.00	5400	168.00	637	265.00	220
46.00	2540	107.00	1314	169.00	1019	266.00	165
47.00	37016	108.00	134	170.00	2096	269.00	428
48.00	15067	109.00	57	171.00	2022	270.00	197
49.00	117480	110.00	37	172.00	2897	271.00	639
50.00	605632	111.00	905	173.00	8333	272.00	330
51.00	189824	112.00	545	174.00	1277440	275.00	162
52.00	6161	113.00	1209	175.00	92640	277.00	82
53.00	410	114.00	53	176.00	1244160	278.00	62
54.00	443	115.00	1198	177.00	77008	280.00	58
55.00	4226	116.00	4157	178.00	2221	281.00	355
56.00	34880	117.00	9023	179.00	315	282.00	122
57.00	65496	118.00	3824	180.00	106	283.00	111
58.00	2042	119.00	6410	182.00	541	284.00	288
59.00	423	120.00	239	183.00	313	287.00	90
60.00	18744	121.00	210	184.00	250	289.00	125
61.00	112240	122.00	138	186.00	164	293.00	85
62.00	108144	123.00	640	188.00	99	296.00	155
63.00	75632	124.00	160	192.00	25	298.00	108
64.00	6495	125.00	375	193.00	309	300.00	128
65.00	794	126.00	90	195.00	131	305.00	403
66.00	506	127.00	280	196.00	234	308.00	210
67.00	5254	128.00	5435	197.00	21	309.00	116
68.00	203456	129.00	2901	199.00	204	310.00	480
69.00	194944	130.00	6137	203.00	419	313.00	55
70.00	12475	131.00	2229	207.00	1229	316.00	199

Date : 12-SEP-2007 09:14

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5091204.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	8362	133.00	130	210.00	5	318.00	84
73.00	80208	134.00	423	212.00	293	319.00	117
74.00	319040	135.00	2290	214.00	131	320.00	42
75.00	1030208	136.00	426	216.00	370	322.00	177
76.00	84856	137.00	1967	217.00	286	324.00	89
77.00	7929	138.00	288	218.00	495	326.00	118
78.00	5712	140.00	1134	219.00	57	329.00	263
79.00	29152	141.00	12579	220.00	595	330.00	98
80.00	10958	142.00	1504	225.00	174	331.00	34
81.00	35064	143.00	12580	226.00	226	333.00	105
82.00	6818	144.00	911	227.00	319	334.00	143
83.00	1014	145.00	1185	228.00	54	335.00	123
85.00	344	146.00	2629	229.00	124	338.00	88
86.00	1892	147.00	1125	230.00	200	339.00	385
87.00	72712	148.00	3342	232.00	410	340.00	73
88.00	64432	149.00	973	234.00	150	341.00	309
89.00	1142	150.00	1348	236.00	40	342.00	91
90.00	14	152.00	721	238.00	66	345.00	186
91.00	4884	153.00	78	239.00	193	346.00	202
92.00	52488	154.00	987	245.00	121	347.00	220
93.00	81704	155.00	4016	246.00	504	349.00	49
94.00	233408	156.00	421	247.00	229		
95.00	2213888	157.00	2894	250.00	4		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-14sep.b/5091402.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 14-SEP-2007 08:49
Operator : ct Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-14sep.b/bfb30.m
Meth Date : 14-Sep-2007 08:22 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.803	3.900	-0.097	95	775552			100.00- 100.00	100.00
3.803	3.900	-0.097	50	212854			15.00- 40.00	27.45
3.803	3.900	-0.097	75	368362			30.00- 60.00	47.50
3.803	3.900	-0.097	96	52109			5.00- 9.00	6.72
3.803	3.900	-0.097	173	4137			0.00- 2.00	0.91
3.803	3.900	-0.097	174	456405			50.00- 100.00	58.85
3.803	3.900	-0.097	175	28775			5.00- 9.00	6.30
3.803	3.900	-0.097	176	447437			95.00- 101.00	98.04
3.803	3.900	-0.097	177	26449			5.00- 9.00	5.91

Data File: /chem/msd5.i/5-14sep.b/5091402.d

Date : 14-SEP-2007 08:49

Client ID: BFB

Instrument: msd5.i

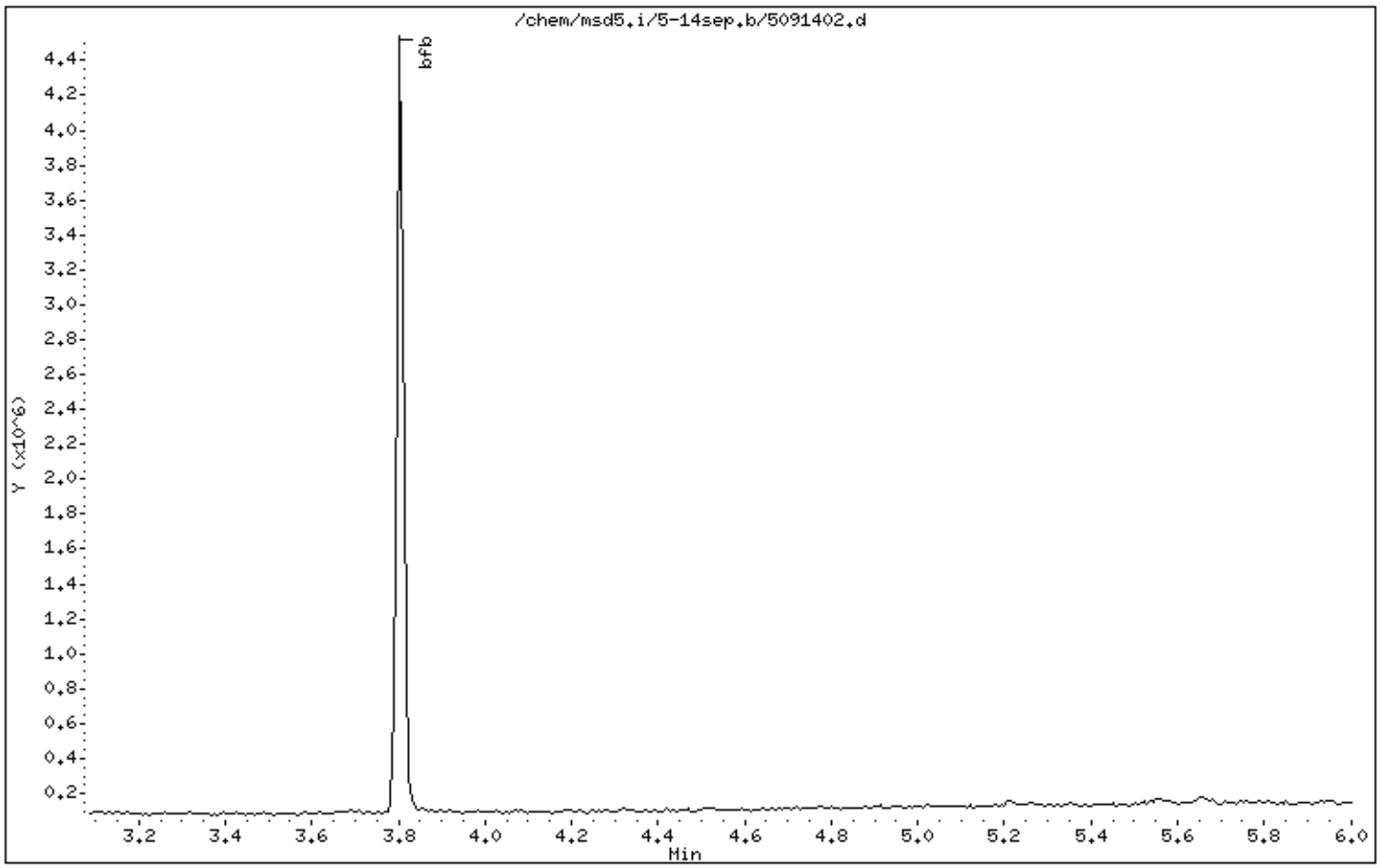
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-14sep.b/5091402.d

Date : 14-SEP-2007 08:49

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

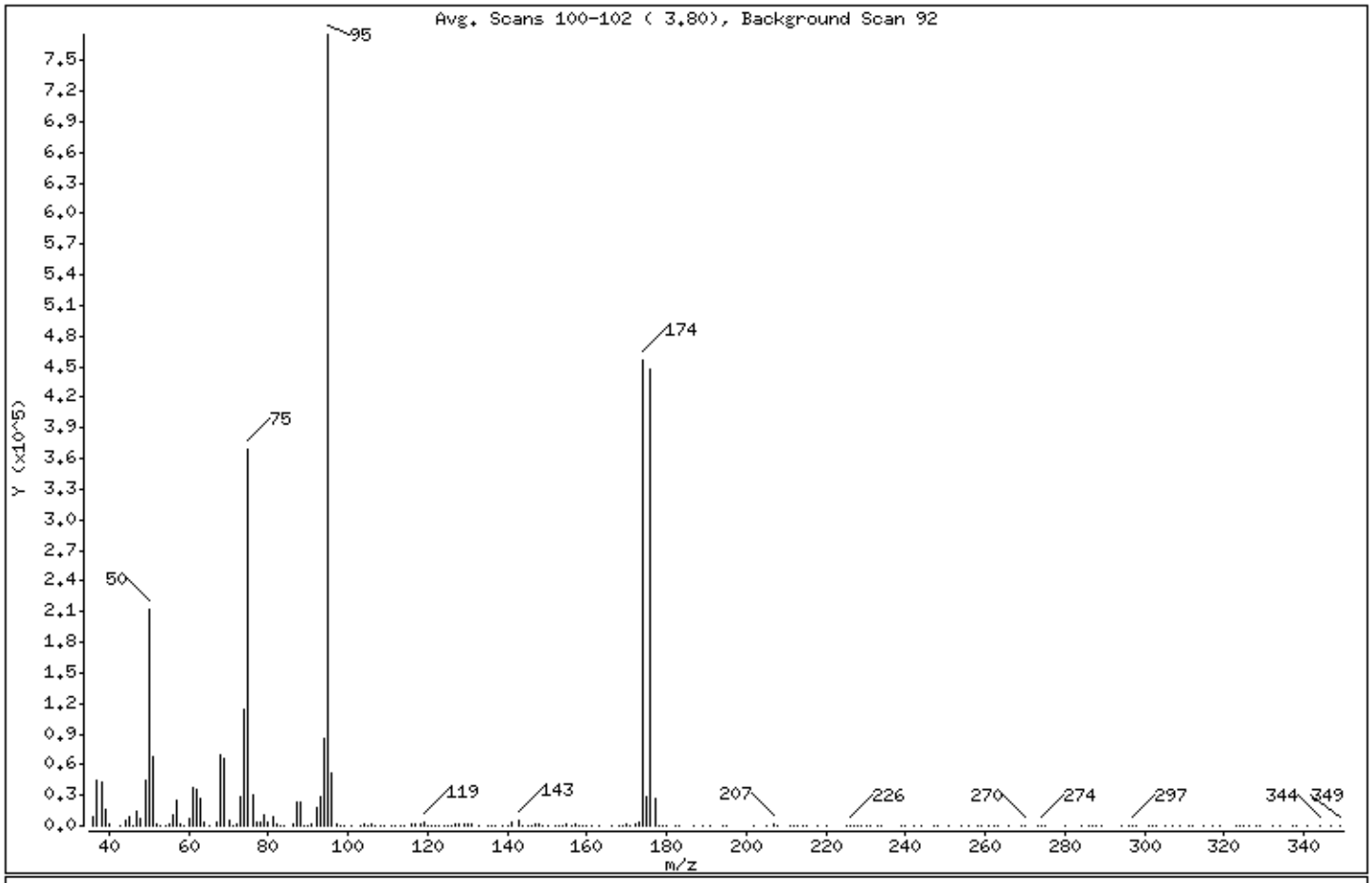
Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.45
75	30.00 - 60.00% of mass 95	47.50
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.53 (0.91)
174	50.00 - 100.00% of mass 95	58.85
175	5.00 - 9.00% of mass 174	3.71 (6.30)
176	95.00 - 101.00% of mass 174	57.69 (98.04)
177	5.00 - 9.00% of mass 176	3.41 (5.91)

Date : 14-SEP-2007 08:49

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: ct

Column phase: Column diameter: 2.00

Data File: 5091402.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8758	93.00	27784	155.00	1925	247.00	115
37.00	44728	94.00	84800	156.00	174	248.00	200
38.00	43032	95.00	775552	157.00	1216	251.00	66
39.00	15538	96.00	52104	158.00	288	254.00	69
40.00	1171	97.00	1654	159.00	430	256.00	108
43.00	798	98.00	272	160.00	89	258.00	77
44.00	5058	99.00	224	161.00	465	259.00	120
45.00	8675	101.00	162	163.00	61	261.00	115
46.00	255	103.00	463	166.00	373	262.00	84
47.00	14513	104.00	1588	168.00	202	263.00	118
48.00	7113	105.00	343	169.00	504	266.00	47
49.00	43920	106.00	1821	170.00	1088	269.00	124
50.00	212800	107.00	879	171.00	752	270.00	379
51.00	66960	108.00	263	172.00	1665	273.00	76
52.00	2574	109.00	2	173.00	4137	274.00	425
53.00	661	111.00	93	174.00	456384	275.00	133
54.00	216	112.00	481	175.00	28768	280.00	210
55.00	2242	113.00	459	176.00	447424	284.00	169
56.00	10898	114.00	81	177.00	26448	286.00	232
57.00	24280	116.00	2588	178.00	782	287.00	167
58.00	1615	117.00	2039	179.00	73	288.00	367
59.00	115	118.00	1599	180.00	53	289.00	97
60.00	7450	119.00	3469	182.00	133	294.00	148
61.00	37832	120.00	212	183.00	416	296.00	133
62.00	35296	121.00	50	187.00	62	297.00	316
63.00	26440	122.00	340	189.00	158	298.00	87
64.00	2714	123.00	313	191.00	450	301.00	137
65.00	635	124.00	215	194.00	130	302.00	59
67.00	2740	125.00	241	195.00	133	303.00	61
68.00	69736	126.00	58	202.00	102	305.00	288
69.00	66840	127.00	969	205.00	59	307.00	181
70.00	5914	128.00	1245	207.00	905	309.00	218
71.00	346	129.00	1359	208.00	491	311.00	61
72.00	2155	130.00	2383	211.00	105	312.00	256
73.00	29256	131.00	1198	212.00	56	315.00	285

Date : 14-SEP-2007 08:49

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: ct

Column phase: Column diameter: 2.00

Data File: 5091402.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	113632	133.00	130	213.00	50	317.00	259
75.00	368320	135.00	705	214.00	70	319.00	112
76.00	30456	136.00	628	215.00	180	323.00	126
77.00	3612	137.00	807	218.00	152	324.00	133
78.00	3364	139.00	123	220.00	186	325.00	176
79.00	11114	140.00	562	225.00	182	326.00	80
80.00	2777	141.00	3800	226.00	508	328.00	289
81.00	9326	143.00	4618	227.00	92	329.00	259
82.00	1379	144.00	314	228.00	183	332.00	114
83.00	582	145.00	314	229.00	114	334.00	112
84.00	225	146.00	281	230.00	298	337.00	77
86.00	920	147.00	1340	231.00	136	338.00	266
87.00	23728	148.00	1262	233.00	62	341.00	232
88.00	22912	149.00	582	234.00	294	344.00	381
89.00	244	150.00	630	239.00	62	347.00	82
90.00	315	152.00	269	240.00	134	349.00	79
91.00	1961	153.00	355	242.00	177		
92.00	18184	154.00	517	244.00	209		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0709128
# of pages (Including Cover): 1

9/27/2007

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 457-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

0218

Contact	~~Karen Swartz~~ BRIAN McCarthy
Company	GEI Consultants, Inc.
Address	455 Winding Brook Glastonbury CT 06033
Phone	860-368-5300 Fax 860-368-5307

Collected By: Signature: Tex Fecker

Project Info:
P.O. #
Project # 061140-8-1703
Project Name BAY SHORE OU1South Perimeter Air Monitoring
Long Island, New York

Turn Around Time:
Normal [X]
Rush [ ]
Specify

Lab Use Only
Pressurized by: BD
Date: 9/11/07
Pressurization Gas: (N_2) He

Lab I.D.	Field Sample I.D.	Can SN#	Date	Time (start – end)	Analyses Requested	Canister Pressure/Vacuum Initial (inch Hg)	Final (inch Hg)	Receipt (PSI)	Final
01A	XXAMSX	11305	9/5/07	0527 1522	TO-15 + Naphthalene	-28	-6	6.0"Hg	5.0psi
02A	DWAMS1	05689	9/5/07	0620 1522	TO-15 + Naphthalene	-30	-7	6.0"Hg	"
03A	LWAMS5	35143	9/5/07	0615 1523	TO-15 + NAPHTHALENE	-30	-2	0.5"Hg	"
04A	TRIP BLANK	34387						4.6psi	4.6psi

Relinquished By: (Signature) Date/Time: 9/6/07 0600
Received By: (Signature) Date/Time: Monica Green ATL 9/7/07 835

Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

NOTES: used flow controllers included
Send Data Pack to Lisa McDonough: 7 Highfield Road, Quincy MA 02169. Send EDD to datagroup@geiconsultants.com

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	FED EX	8617 5870 7881	MG	NA	Good	Yes No (None)	0709128

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0709128

Client

Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 09/21/07
Date Completed: 9/20/07
Date Received: 9/7/07
PO#: NR
Project#: 061140-8-1703 Bay Shore OU1South Perimeter Air
Total $: $ 1,278.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	XXAMSX	Modified TO-15	9/5/2007	6.0 "Hg	$225.00
01AA	XXAMSX Lab Duplicate	Modified TO-15	9/5/2007	6.0 "Hg	$0.00
02A	DWAMS1	Modified TO-15	9/5/2007	6.0 "Hg	$225.00
03A	UWAMS5	Modified TO-15	9/5/2007	0.5 "Hg	$225.00
04A	TRIP BLANK	Modified TO-15	NA	4.6 psi	$225.00
05A	Lab Blank	Modified TO-15	NA	NA	$0.00
06A	CCV	Modified TO-15	NA	NA	$0.00
07A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each.	$50.00
	6 Liter Summa Canister (100% Certified) (3) @ $65.00 each.	$195.00
	Blue Body Flow Controller (1) @ $35.00 each.	$35.00
	Blue Body Flow Controller (100% Certified) (2) @ $40.00 each.	$80.00
	Fuel Surcharge (4) @ $2.00 each.	$8.00
	Duplicate Sampling T (100% Certified) (2) @ $5.00 each.	$10.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bay Shore OU1 South Perimeter Air/9699

BILL TO: Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MW **Date:** 9/8

Discrepancy Type: (circle all that apply) (I.) II. III.

Workorder(s) affected: 0709128 **Sample(s) affected:** 01A - 03A

I. Sample Receipt Discrepancies

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

Narration not required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☒ No brass cap on canister.
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm.

Narration Required:

- ☐ COC improperly relinquished / received.
- ☐ Sample tags / can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply): ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

Initials: _____ **Date:** _____
(if not the original initiator)

☐ **CSR Notified**
(see section below)

Describe the Discrepancy: _____

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi + Initial Pressure (psi)}}$$

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081417; 6L#11308 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak#	Quantification	CAS	Type	Concentration	Units
	Propylene	0-00-0	Not Found		
	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		
	Freon 12	0-00-0	Not Found		
	Freon 114	0-00-0	Not Found		
	Chloromethane	0-00-0	Not Found		
	Butane	0-00-0	Not Found		
	Vinyl Chloride	0-00-0	Not Found		
	1,3-Butadiene	0-00-0	Not Found		
	Bromomethane	0-00-0	Not Found		
	Chloroethane	0-00-0	Not Found		
	Isopentane	0-00-0	Not Found		
	Vinyl bromide	0-00-0	Not Found		
	Freon 11	0-00-0	Not Found		
	Ethanol	0-00-0	Not Found		
	1,1-Dichloroethene	0-00-0	Not Found		
	Freon 113	0-00-0	Not Found		
	Acrolein	0-00-0	Not Found		
	2-Propanol	0-00-0	Not Found		
	3-Chloropropene	0-00-0	Not Found		
	2-Methylpentane	0-00-0	Not Found		
	Methyl Acetate	0-00-0	Not Found		
	tert-Butyl alcohol	0-00-0	Not Found		
	Methyl tert-butyl ether	0-00-0	Not Found		
	trans-1,2-Dichloroethene	0-00-0	Not Found		
	Acrylonitrile	0-00-0	Not Found		
	Hexane	0-00-0	Not Found		
	Isopropyl ether	0-00-0	Not Found		
	1,1-Dichloroethane	0-00-0	Not Found		
	Vinyl Acetate	0-00-0	Not Found		
	Chloroprene	0-00-0	Not Found		
	Ethyl-tert-butyl ether	0-00-0	Not Found		
	2,2-Dichloropropane	0-00-0	Not Found		
	cis-1,2-Dichloroethene	0-00-0	Not Found		

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081417; 6L#11308 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak #	Quantification	CAS	Type	Concentration	Units
	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Not Found		
	Ethyl Acetate	0-00-0	Not Found		
	Tetrahydrofuran	0-00-0	Not Found		
	Chloroform	0-00-0	Not Found		
	Cyclohexane	0-00-0	Not Found		
	2,3-Dimethylpentane	0-00-0	Not Found		
	1,1,1-Trichloroethane	0-00-0	Not Found		
	Carbon Tetrachloride	0-00-0	Not Found		
	1,1-Dichloropropene	0-00-0	Not Found		
	2,2,4-Trimethylpentane	0-00-0	Not Found		
	tert-Amyl Methyl ether	0-00-0	Not Found		
	1,2-Dichloroethane	0-00-0	Not Found		
	Heptane	0-00-0	Not Found		
	Thiophene	0-00-0	Not Found		
	Trichloroethene	0-00-0	Not Found		
	Methylcyclohexane	0-00-0	Not Found		
	1,2-Dichloropropane	0-00-0	Not Found		
	1,4-Dioxane	0-00-0	Not Found		
	Bromodichloromethane	0-00-0	Not Found		
	cis-1,3-Dichloropropene	0-00-0	Not Found		
	4-Methyl-2-pentanone	0-00-0	Not Found		
	trans-1,3-Dichloropropene	0-00-0	Not Found		
	1,1,2-Trichloroethane	0-00-0	Not Found		
	Tetrachloroethene	0-00-0	Not Found		
	2-Hexanone	0-00-0	Not Found		
	Dibromochloromethane	0-00-0	Not Found		
	1,2-Dibromoethane (EDB)	0-00-0	Not Found		
	Ethyl Benzene	0-00-0	Not Found		
	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		
	o-Xylene	0-00-0	Not Found		
	Styrene	0-00-0	Not Found		
	Bromoform	0-00-0	Not Found		
	Cumene	0-00-0	Not Found		

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081417; 6L#11308 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak #	Quantification	CAS	Type	Concentration	Units
	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		
	Propylbenzene	0-00-0	Not Found		
	1,2,3-Trichloropropane	0-00-0	Not Found		
	4-Ethyltoluene	0-00-0	Not Found		
	1,3,5-Trimethylbenzene	0-00-0	Not Found		
	tert-Butylbenzene	0-00-0	Not Found		
	1,2,4-Trimethylbenzene	0-00-0	Not Found		
	Pentachloroethane	0-00-0	Not Found		
	sec-Butylbenzene	0-00-0	Not Found		
	p-Cymene	0-00-0	Not Found		
	1,3-Dichlorobenzene	0-00-0	Not Found		
	1,4-Dichlorobenzene	0-00-0	Not Found		
	alpha-Chlorotoluene	0-00-0	Not Found		
	Indan	0-00-0	Not Found		
	Butylbenzene	0-00-0	Not Found		
	1,2-Dichlorobenzene	0-00-0	Not Found		
	Indene	0-00-0	Not Found		
	Hexachloroethane	0-00-0	Not Found		
	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		
	1,2,4-Trichlorobenzene	0-00-0	Not Found		
	Hexachlorobutadiene	0-00-0	Not Found		
	Naphthalene	0-00-0	Not Found		
	1,2,3-Trichlorobenzene	0-00-0	Not Found		
5	1,1-Difluoroethane	299201-98-2	Quantified	0.00	
9	Carbon Disulfide	75-15-0	Quantified	0.06	
13	Methylene Chloride	21133-52-8	Quantified	0.05	
16	Bromochloromethane-IS	74-97-5	Quantified	5.00	
17	Benzene	2809-69-0	Quantified	0.03	
18	1,2-Dichloroethane-d4	930-29-0	Quantified	4.94	
20	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	
21	Dibromomethane	0-00-0	Quantified	0.00	
22	Toluene-D8	2037-26-5	Quantified	5.05	
26	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081417; 6L#11308 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak #	Quantification	CAS #	Type	Concentration	Units
29	Bromofluorobenzene	1073-06-9	Quantified	4.81	

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081420; 6L#34387 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak #	Quantification	CAS	Type	Concentration	Units
	Propylene	0-00-0	Not Found		
	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		
	Freon 12	0-00-0	Not Found		
	Freon 114	0-00-0	Not Found		
	Butane	0-00-0	Not Found		
	Vinyl Chloride	0-00-0	Not Found		
	1,3-Butadiene	0-00-0	Not Found		
	Bromomethane	0-00-0	Not Found		
	Chloroethane	0-00-0	Not Found		
	Isopentane	0-00-0	Not Found		
	Vinyl bromide	0-00-0	Not Found		
	Freon 11	0-00-0	Not Found		
	Ethanol	0-00-0	Not Found		
	1,1-Dichloroethene	0-00-0	Not Found		
	Freon 113	0-00-0	Not Found		
	Acrolein	0-00-0	Not Found		
	2-Propanol	0-00-0	Not Found		
	3-Chloropropene	0-00-0	Not Found		
	2-Methylpentane	0-00-0	Not Found		
	Methyl Acetate	0-00-0	Not Found		
	tert-Butyl alcohol	0-00-0	Not Found		
	Methyl tert-butyl ether	0-00-0	Not Found		
	trans-1,2-Dichloroethene	0-00-0	Not Found		
	Acrylonitrile	0-00-0	Not Found		
	Hexane	0-00-0	Not Found		
	Isopropyl ether	0-00-0	Not Found		
	1,1-Dichloroethane	0-00-0	Not Found		
	Vinyl Acetate	0-00-0	Not Found		
	Chloroprene	0-00-0	Not Found		
	Ethyl-tert-butyl ether	0-00-0	Not Found		
	2,2-Dichloropropane	0-00-0	Not Found		
	cis-1,2-Dichloroethene	0-00-0	Not Found		
	Cyclohexane	0-00-0	Not Found		

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081420; 6L#34387 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak #	Quantification	CAS	Type	Concentration	Units
	2,3-Dimethylpentane	0-00-0	Not Found		
	1,1,1-Trichloroethane	0-00-0	Not Found		
	Carbon Tetrachloride	0-00-0	Not Found		
	1,1-Dichloropropene	0-00-0	Not Found		
	2,2,4-Trimethylpentane	0-00-0	Not Found		
	tert-Amyl Methyl ether	0-00-0	Not Found		
	1,2-Dichloroethane	0-00-0	Not Found		
	Heptane	0-00-0	Not Found		
	Thiophene	0-00-0	Not Found		
	Trichloroethene	0-00-0	Not Found		
	Methylcyclohexane	0-00-0	Not Found		
	1,2-Dichloropropane	0-00-0	Not Found		
	1,4-Dioxane	0-00-0	Not Found		
	Bromodichloromethane	0-00-0	Not Found		
	cis-1,3-Dichloropropene	0-00-0	Not Found		
	4-Methyl-2-pentanone	0-00-0	Not Found		
	Toluene	0-00-0	Not Found		
	trans-1,3-Dichloropropene	0-00-0	Not Found		
	1,1,2-Trichloroethane	0-00-0	Not Found		
	Tetrachloroethene	0-00-0	Not Found		
	2-Hexanone	0-00-0	Not Found		
	Dibromochloromethane	0-00-0	Not Found		
	1,2-Dibromoethane (EDB)	0-00-0	Not Found		
	Chlorobenzene	0-00-0	Not Found		
	Ethyl Benzene	0-00-0	Not Found		
	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		
	m,p-Xylene	0-00-0	Not Found		
	o-Xylene	0-00-0	Not Found		
	Styrene	0-00-0	Not Found		
	Bromoform	0-00-0	Not Found		
	Cumene	0-00-0	Not Found		
	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		
	Propylbenzene	0-00-0	Not Found		

CERTIFICATION REPORT

Lab Name: Air Toxics LTD

Calibration File: \Calibrations\ATL\TO150814a

Lab File ID: F081420; 6L#34387 w/10.2ml +T:1

Date Analyzed: 8/14/2007

Dilution Factor: 1.00000

Peak#	Quantification	CAS	Type	Concentration	Units
	1,2,3-Trichloropropane	0-00-0	Not Found		
	4-Ethyltoluene	0-00-0	Not Found		
	1,3,5-Trimethylbenzene	0-00-0	Not Found		
	tert-Butylbenzene	0-00-0	Not Found		
	1,2,4-Trimethylbenzene	0-00-0	Not Found		
	Pentachloroethane	0-00-0	Not Found		
	sec-Butylbenzene	0-00-0	Not Found		
	p-Cymene	0-00-0	Not Found		
	1,3-Dichlorobenzene	0-00-0	Not Found		
	1,4-Dichlorobenzene	0-00-0	Not Found		
	alpha-Chlorotoluene	0-00-0	Not Found		
	Indan	0-00-0	Not Found		
	Butylbenzene	0-00-0	Not Found		
	1,2-Dichlorobenzene	0-00-0	Not Found		
	Indene	0-00-0	Not Found		
	Hexachloroethane	0-00-0	Not Found		
	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		
	Hexachlorobutadiene	0-00-0	Not Found		
	Naphthalene	0-00-0	Not Found		
	1,2,3-Trichlorobenzene	0-00-0	Not Found		
3	1,1-Difluoroethane	0-00-0	Quantified	0.00	
22	Carbon Disulfide	75-15-0	Quantified	0.08	
23	Acetone	148988-02-7	Quantified	0.21	
26	Methylene Chloride	75-09-2	Quantified	0.04	
28	2-Butanone (Methyl Ethyl Ketone)	922-89-4	Quantified	0.08	
28	Ethyl Acetate	922-89-4	Quantified	0.00	
30	Bromochloromethane-IS	74-97-5	Quantified	5.00	
33	Benzene	71-43-2	Quantified	0.03	
34	1,2-Dichloroethane-d4	930-29-0	Quantified	4.95	
36	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	
38	Toluene-D8	2037-26-5	Quantified	4.98	
42	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	
46	Bromofluorobenzene	460-00-4	Quantified	4.87	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0709128

A	R	T	M	Q	
☑	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
	☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☑	☐	☑	☐	Corrective Action issued - #
NA	☑	☐	☑	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / NO)*** (YES circled)

A	R	T	M	Q	
☑	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	Hold time is met for all samples
	☐	☐	☐	☐	Appropriate data qualifier flags are applied
☑	☐	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☐	☐		☐	Samples analyzed within the project or method specific clock
☑	☐	☐			Retention times have been verified
☑	☐	☐		☐	Appropriate ICAL(s) included
	☐	☐	☑	☐	At least one result per sample is verified against the target quant sheets/raw data

A	R	T	M	Q	
☑	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
NA	☐	☐	☑		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☑		Special units for all samples in the final report are correctly calculated
	☐	☐	☑		Manually entered results checked (i.e. special CCV compounds)
	☐	☐	☑		TPH/NMOC (verify calculations and correct reference compound used)
	☑				Chain of Custody scanned correctly
				☐	Verify sample id's vs. chain of custody
☑	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☑				Verify receipt pressures against logbook and Target
☑	☐				Verify canister ID #'s
	☑		☑		Extra printed copies are provided per client profile
	☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: All QC Met
Dup O/A
CS_2 and 2-Butanone in TB < 5x RL see/H/sp
- confirmation run file ~~0509~~ 5091415

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
[signature] 9/14/07	R: [signature] 9/20/07	[signature] 9/20/07	
	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable